

QY	301	TGCTTACTTTATTCGCTCTCTTTTACCGTTTCAGCTAAAAATCTTCGCTATTCAAT	360	1381	CGCCAGTCTGTTTCAGAACAGGTTGAAAGACTCGATTCTCTTGAAACAGATAGTTTACAAC	1440
DB	301	TGCTTACTTTATTCGCTCTCTTTTACCGTTTCAGCTAAAAATCTTCGCTATTCAAT	360	1381	CGCCAGTCTGTTTCAGAACAGGTTGAAAGACTCGATTCTCTTGAAACAGATAGTTTACAAC	1440
QY	361	GTGTTTCTCGTTTGTGTGAGAGAAAAATCTGACAAAAATCATTTATGCAATTTAT	420	1441	CTGACATGAAATCCAGAGCCGAAATCTGACAAAAGTATGACAGACATTATGAGCTCGT	1500
DB	361	GTGTTTCTCGTTTGTGTGAGAGAAAAATCTGACAAAAATCATTTATGCAATTTAT	420	1441	CTGACATGAAATCCAGAGCCGAAATCTGACAAAAGTATGACAGACATTATGAGCTCGT	1500
QY	421	GGTGAGATCTTAGTTAACTCGCTTCTCTAACCAAGTCAGATTAAAAAGAGTGTTTC	480	1501	CTGCTGTTAATGCGAGCGAAAGTACTGAAACAAAATGATGGCAGCAGACAAAGATGTTCTGG	1560
DB	421	GGTGAGATCTTAGTTAACTCGCTTCTCTAACCAAGTCAGATTAAAAAGAGTGTTTC	480	1501	CTGCTGTTAATGCGAGCGAAAGTACTGAAACAAAATGATGGCAGCAGACAAAGATGTTCTGG	1560
QY	481	GTCCATGTTGCTTTGTTTGTGTTGGAGAGAGTTCGAGAGTTAGTGAGTGTTAT	540	1561	AGTTCGACCTTAAACAAACTCTCTCAGCAGAAAACCTTCCAAAAGGAAAGCAAGTTCATGC	1620
DB	481	GTCCATGTTGCTTTGTTTGTGTTGGAGAGAGTTCGAGAGTTAGTGAGTGTTAT	540	1561	AGTTCGACCTTAAACAAACTCTCTCAGCAGAAAACCTTCCAAAAGGAAAGCAAGTTCATGC	1620
QY	541	TTGGGGTGAGGTAGTAAAGTTTGAAGGGGGAGTGATTCATCAAGTGTTATGAAT	600	1621	CAAGGTGCTGTTGGAAGGCAAACTTAAAGAAAGCCACGCAAACTTCGCAACTTCCCA	1680
DB	541	TTGGGGTGAGGTAGTAAAGTTTGAAGGGGGAGTGATTCATCAAGTGTTATGAAT	600	1621	CAAGGTGCTGTTGGAAGGCAAACTTAAAGAAAGCCACGCAAACTTCGCAACTTCCCA	1680
QY	601	CGAGGCTGATCCGGGGGATAGATATTTTCGAGTTCCTTTGGAGAAATCAAACTCAACAG	660	1681	AAGTGGTCTGTAAGGCAAACTTAAAGAAAGCCACGCAAACTTCGCAACTTCCCA	1740
DB	601	CGAGGCTGATCCGGGGGATAGATATTTTCGAGTTCCTTTGGAGAAATCAAACTCAACAG	660	1681	AAGTGGTCTGTAAGGCAAACTTAAAGAAAGCCACGCAAACTTCGCAACTTCCCA	1740
QY	661	AGTTCAATGGGTTCTTGATTCATTTACCCAAAAACCTAGATCAAGTCTGATGTAG	720	1741	TGAAATCTTAAAGAACCCGGGAGTCCCAAAAAGAAAATTTGAAAAGAAATCAGCAACTAAAA	1800
DB	661	AGTTCAATGGGTTCTTGATTCATTTACCCAAAAACCTAGATCAAGTCTGATGTAG	720	1741	TGAAATCTTAAAGAACCCGGGAGTCCCAAAAAGAAAATTTGAAAAGAAATCAGCAACTAAAA	1800
QY	721	ATGAGAGATGATAACCAAGGATCTAAATGGGTTTCCAGGTGGTGAAATTTGTAGACAGGG	780	1801	AGCCAGCCAACTCTGGAGATATGAGCAACAAAAGCCCTGAAAGTCACTCAAAAAGTTGCA	1860
DB	721	ATGAGAGATGATAACCAAGGATCTAAATGGGTTTCCAGGTGGTGAAATTTGTAGACAGGG	780	1801	AGCCAGCCAACTCTGGAGATATGAGCAACAAAAGCCCTGAAAGTCACTCAAAAAGTTGCA	1860
QY	781	GATTCCTGCAACCTGGTGGATCAATAATGGGTTTGGATCATGGTCTCATCAGGGCG	840	1861	GAAAAGCTTTGAAATTTTGACTTGGAGATCTCGGAGATCCGAGGCAAGTGAATCTGAGT	1920
DB	781	GATTCCTGCAACCTGGTGGATCAATAATGGGTTTGGATCATGGTCTCATCAGGGCG	840	1861	GAAAAGCTTTGAAATTTTGACTTGGAGATCTCGGAGATCCGAGGCAAGTGAATCTGAGT	1920
QY	841	TTACCAACTTAAGTATGATCAATAGCTTAGCGGATCATGCAAAAGCTTGGAGTA	900	1921	CTGAAATGTCCAGAACAGTGTGGCGCAAACTCGTTTTCTGAGATCAGAGATGCCATTTG	1980
DB	841	TTACCAACTTAAGTATGATCAATAGCTTAGCGGATCATGCAAAAGCTTGGAGTA	900	1921	CTGAAATGTCCAGAACAGTGTGGCGCAAACTCGTTTTCTGAGATCAGAGATGCCATTTG	1980
QY	901	ATAGTGAGAGATCTTTTGGCAGGAGTGAGTGACTTCTCTTTAGCACCAGTTATCA	960	1981	GTGGAACTAATGTGTGTTCTCGGATTCAGTGTCAAAATAGCAAGCAATGGAATGG	2040
DB	901	ATAGTGAGAGATCTTTTGGCAGGAGTGAGTGACTTCTCTTTAGCACCAGTTATCA	960	1981	GTGGAACTAATGTGTGTTCTCGGATTCAGTGTCAAAATAGCAAGCAATGGAATGG	2040
QY	961	GAACAACACCGGTAAATGTAGCCGGTCAATGGAAATTTTACTTCAGATGGGTATGG	1020	2041	GGGCTATGAAACACGCACTTTGAAAGTGTCAATGGGAAACCCAGCCAGATAAACTATCTACAG	2100
DB	961	GAACAACACCGGTAAATGTAGCCGGTCAATGGAAATTTTACTTCAGATGGGTATGG	1020	2041	GGGCTATGAAACACGCACTTTGAAAGTGTCAATGGGAAACCCAGCCAGATAAACTATCTACAG	2100
QY	1021	TAAATGGTCTTTTCCACCCAGAGTGCCACTTCTCAAGCTGGCTATAATGATTTGAATGG	1080	2101	GAGCGAAACTGGCCAGAGACCAACAACTGATTTTGTAGTAAACCCAGCAATGCCAGT	2160
DB	1021	TAAATGGTCTTTTCCACCCAGAGTGCCACTTCTCAAGCTGGCTATAATGATTTGAATGG	1080	2101	GAGCGAAACTGGCCAGAGACCAACAACTGATTTTGTAGTAAACCCAGCAATGCCAGT	2160
QY	1081	ATGACTTGTGAATCTTGATCAGATGCCCTTCTCTTTCAGAGTGGGTATGG	1140	2161	TCCAGTGGGCAACCCAGAACCCCGGTTCCCAATGGAAACCAACAAAGCTTGGCTTTCAGA	2220
DB	1081	ATGACTTGTGAATCTTGATCAGATGCCCTTCTCTTTCAGAGTGGGTATGG	1140	2161	TCCAGTGGGCAACCCAGAACCCCGGTTCCCAATGGAAACCAACAAAGCTTGGCTTTCAGA	2220
QY	1141	ATAGCTTATTCAGGTTTCGTAATGTAGTGATCAAAATCTATTTCAGTTTTTTTTTTTC	1200	2221	TGAAAAACCAACTTATTGGCTTTTCCATTGGTAAACAGCAAACTCGCATGCAACCATAGAA	2280
DB	1141	ATAGCTTATTCAGGTTTCGTAATGTAGTGATCAAAATCTATTTCAGTTTTTTTTTTTC	1200	2221	TGAAAAACCAACTTATTGGCTTTTCCATTGGTAAACAGCAAACTCGCATGCAACCATAGAA	2280
QY	1201	CCTTTCTTCGTTCTTGAGTACTTAGAGTAGAATGAAATAGAAATCTTAAAGAGT	1260	2281	ACCCAGACCTTGTGGCCATGGTAAATCAACAACTTATGTATCTGATAGGAATCCAC	2340
DB	1201	CCTTTCTTCGTTCTTGAGTACTTAGAGTAGAATGAAATAGAAATCTTAAAGAGT	1260	2281	ACCCAGACCTTGTGGCCATGGTAAATCAACAACTTATGTATCTGATAGGAATCCAC	2340
QY	1261	CATGTTTTGACAGATGGAATCCAGCGTGTAAACAGCTCTTTTCAAAATTTGAATTCAC	1320	2341	GGCCTGCAATTAGTAAAGTGGAAACCCAGCAACTAGGAGGTCCCAAGGAAACAGCGGCTA	2400
DB	1261	CATGTTTTGACAGATGGAATCCAGCGTGTAAACAGCTCTTTTCAAAATTTGAATTCAC	1320	2341	GGCCTGCAATTAGTAAAGTGGAAACCCAGCAACTAGGAGGTCCCAAGGAAACAGCGGCTA	2400
QY	1321	CAATTAGAGAGAGCAGTTGGGTGAGTCTGTGAAAGTTCGTTCAATATGATACCGTCAA	1380	2401	TATTTTGAATCACAGACTTGTGTTTACCTGCTGGAAATCAGCTATATGGATCACTACAG	2460
DB	1321	CAATTAGAGAGAGCAGTTGGGTGAGTCTGTGAAAGTTCGTTCAATATGATACCGTCAA	1380	2401	TATTTTGAATCACAGACTTGTGTTTACCTGCTGGAAATCAGCTATATGGATCACTACAG	2460
				2461	ACATGATCACTTGTGTTATGTCAACCGGAGGGCAACAACTGGACTACTGTATAAAAAACC	2520

Db 2461 ACATGATCACTTGTATGTCAACCGGAGGCAACAATGACATCTGATTAATAAACCC 2520
QY 2521 AGCAACCTGGATCATTAATAAGAGGCACAGCCTTGGCTACCTTTGATTTGACCAAGCAAC 2580
Db 2521 AGCAACCTGGATCATTAATAAGAGGCACAGCCTTGGCTACCTTTGATTTGACCAAGCAAC 2580
QY 2581 CTGCAACTCCAAAGGTTTACTACCTGAATCAGATGCTAGCTACCAAGCATGTATGCG 2640
Db 2581 CTGCAACTCCAAAGGTTTACTACCTGAATCAGATGCTAGCTACCAAGCATGTATGCG 2640
QY 2641 CTGGGCTTCGACCTCATCTCAGTACCAAGTTCCTACACATATCTACATGTGGAAATCTG 2700
Db 2641 CTGGGCTTCGACCTCATCTCAGTACCAAGTTCCTACACATATCTACATGTGGAAATCTG 2700
QY 2701 TTTCCAGGATTTTGAATGGGACTACAGGTACATGCCAGAGAGCGGCTCTGCTATAG 2760
Db 2701 TTTCCAGGATTTTGAATGGGACTACAGGTACATGCCAGAGAGCGGCTCTGCTATAG 2760
QY 2761 ATTCTTTACAGCAAGATATCCATCAAGGAATTAAGTACATATCTTCTCATGAGATATCCA 2820
Db 2761 ATTCTTTACAGCAAGATATCCATCAAGGAATTAAGTACATATCTTCTCATGAGATATCCA 2820
QY 2821 ATGGTAAATGGGTGCAAGAAAGGTTTACCTCAAACTCTTCTGCGCACTCCAAATTAAGG 2880
Db 2821 ATGGTAAATGGGTGCAAGAAAGGTTTACCTCAAACTCTTCTGCGCACTCCAAATTAAGG 2880
QY 2881 CTAAACTTTGAGGAAGCCAGGGCTCGAAGAGACAGTATCATCGTGAATGGGACAGACGG 2940
Db 2881 CTAAACTTTGAGGAAGCCAGGGCTCGAAGAGACAGTATCATCGTGAATGGGACAGACGG 2940
QY 2941 AAAAGCATATCTAAACTTTAGCTCAACAGATTTGCTCAATCACAAGATGTGGAGACATA 3000
Db 2941 AAAAGCATATCTAAACTTTAGCTCAACAGATTTGCTCAATCACAAGATGTGGAGACATA 3000
QY 3001 ACAGCAGCAGCTGTGGAAATTTAGATGCTGCAAGAAAGCAAGAAATCCAGAAAGTAG 3060
Db 3001 ACAGCAGCAGCTGTGGAAATTTAGATGCTGCAAGAAAGCAAGAAATCCAGAAAGTAG 3060
QY 3061 TCCAAAGAAATTTGATGCGATGCCACCTGAGGTTATAGAAATCAGGAGTATCCAACTG 3120
Db 3061 TCCAAAGAAATTTGATGCGATGCCACCTGAGGTTATAGAAATCAGGAGTATCCAACTG 3120
QY 3121 ATGGGGCAAGAAAGGTAATAATATCTGCCAGATCATGTAAGAGGTGATCTAAAGGAACT 3180
Db 3121 ATGGGGCAAGAAAGGTAATAATATCTGCCAGATCATGTAAGAGGTGATCTAAAGGAACT 3180
QY 3181 CGTCTCCAGTTAAAGCAGCAGAAAGGAGAAATGTTATCTCCCAAAAGCGCTGCA 3240
Db 3181 CGTCTCCAGTTAAAGCAGCAGAAAGGAGAAATGTTATCTCCCAAAAGCGCTGCA 3240
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Db 3241 AAAAGGTCGACAGGTAGAAAGAAATCAGTACCTCGGCTGCTCATGCTCAGAGATCC 3300
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Db 3301 AGCTTTGGCAACTACTCTCCAAAGACACCTTTATCAAGAGAGAGCCCTAAAGGAAAG 3360
QY 3361 GGAGAAAGTCCATACAGATTCAGGAAAGCAGAGGTCCTCAGGAGAACTTCTGTGTC 3420
Db 3361 GGAGAAAGTCCATACAGATTCAGGAAAGCAGAGGTCCTCAGGAGAACTTCTGTGTC 3420
QY 3421 AGGATTTCTATTCGGGAAATTAATTTACAGGATGCAAAATCTGATCTTAGAGACAAAGAAA 3480
Db 3421 AGGATTTCTATTCGGGAAATTAATTTACAGGATGCAAAATCTGATCTTAGAGACAAAGAAA 3480
QY 3481 GAGAACAGAGCAAAATCAATGGTCTTCTGTAAGAGGAGATGGTGCACTTGTTCCTATG 3540
Db 3481 GAGAACAGAGCAAAATCAATGGTCTTCTGTAAGAGGAGATGGTGCACTTGTTCCTATG 3540
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Db 3541 AGAGCAAGAGCGAAAGCCAAAGCCAAAGTTGACATTCAGCATGAAACAACTCCCATAT 3600
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Db 3601 GGAACTTACTGATGGGAAAGAGATGAAAGAAAGAGGATGAAGAGAGATGAAAGAA 3660
QY 3661 AAGAGAGTGTGGGAAAGAGAGAGTCTCCGAGGAGGCTGATCTCTTCATCG 3720
Db 3661 AAGAGAGTGTGGGAAAGAGAGAGTCTCCGAGGAGGCTGATCTCTTCATCG 3720
QY 3721 CTGCGATGCACCTGCTACAGGAGATAGACGTTTTTTCGCAATGGAAGGATCGGTGTTG 3780
Db 3721 CTGCGATGCACCTGCTACAGGAGATAGACGTTTTTTCGCAATGGAAGGATCGGTGTTG 3780
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Db 4621 GAGGTGTTCCAGAGAAATTTCAAGGTGAGATCATCACTCAAGCTCATTAATTTACCAG 4680

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DB 6481 GAAGGACTGTCTTTCGGAACATCAGTAACTCAATATTCAGAGGCTCTTTCAACGGAGC 6540
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DB 6721 GCCAGAAAGTCCCATTTAGACATAATAACAGGAATCCAAATAGCTATTTCTCTCTCTCT 6780
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QY 6841 CTCTCTAACMAAAAAAATAAAAAAATACTCGAG 6873

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Db 7325 AAATGATGTTTGTGTCAGAAATTTTAAATTTCACTAGTTAACGATCAAAATATATTC 7384
QY 3740 ----- 3739
Db 7385 ATAATGCATCTTGTCAGAAACAGGTGTGCAATTTATGTTGACAGCTGAATGGTTTATGTGC 7444
QY 3740 ----- 3749
Db 7445 CTATTAATTTCTTTTACTGCTATAGATGACCAATTTGAACCTTAAACGTTTACAGGAGATAGA 7504
QY 3750 CGTTTTTCGCAATGAAGGGATCGGTGTTGATTCGGTCATTGAGTGTTCCTTACACAG 3809
Db 7505 CGTTTTTCGCAATGAAGGGATCGGTGTTGATTCGGTCATTGAGTGTTCCTTACACAG 7564
QY 3810 AATGTCCTGGATCACCTTTCA----- 3830
Db 7565 AATGTCCTGGATCACCTTTCAAGGTAATAGTTCGCTTAAATAATTCAGTTTCCAAAACA 7624
QY 3831 ----- 3859
Db 7625 TAGAAATTAACCCATGCGTGTGTTTACAATGACAGCTCTCGTTCATGCTCTAGCTGCTCG 7684
QY 3860 ATTCCCTCCAAATTAAGCAGCAGCGGAGAGATGAAGGAATGTTAGAGCGTAGTTGT 3919
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QY 3920 TGAAGATCCAGAGGATGATTTCTGAACTTAAATGAAATTCCTTCGTCGAGGAAAGGT 3979
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QY 4040 GGACTGTTCAAACTCGGAATGGAAGATTTAAATTTCTTAGAGAGAGTATTCAAAATTT 4099
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QY 4100 AGAAGAGAAATGATTTATCATCAAGATTTCTTTGATCGGCGATTTTTCAGTCTGTGG 4159
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QY 4160 GAGAGTTGATCTGTTTCATGTTCCAAATCAGACGAGAGTTTCTCAACACAGGTGTA 4219
Db 7985 GAGAGTTGATCTGTTTCATGTTCCAAATCAGACGAGAGTTTCTCAACACAGGTGTA 8044
QY 4220 AACAAAATGTCAGTGGAAATCATCAATCAGTGCAGAACTGGAGCCCAAACTTGTCTGA 4279
Db 8045 AACAAAATGTCAGTGGAAATCATCAATCAGTGCAGAACTGGAGCCCAAACTTGTCTGA 8104
QY 4280 TGAATTTGTTCTTCAAGGAATGAGAGACCGCATCTATATGAAGATCTGGTGAATTTCA 4339
Db 8105 TGAATTTGTTCTTCAAGGAATGAGAGACCGCATCTATATGAAGATCTGGTGAATTTCA 8164
QY 4340 GAAACAAGAAATCAAAATGTCGCTCAGAGAAACCTGATCTTGAAAAAACAATGAATG 4399
Db 8165 GAAACAAGAAATCAAAATGTCGCTCAGAGAAACCTGATCTTGAAAAAACAATGAATG 8224
QY 4400 GAAAGACTCTGTTCTGTTTGGTCAGCAGAAATGATATTAATTTGGGCAAACTCCTTC 4459
Db 8225 GAAAGACTCTGTTCTGTTTGGTCAGCAGAAATGATATTAATTTGGGCAAACTCCTTC 8284
QY 4460 CAGCAGCTATGAGCAGTGTGCGACTCGACAGCAGCATGCTACTAGACATAGAGATTTTGG 4519
Db 8285 CAGCAGCTATGAGCAGTGTGCGACTCGACAGCAGCATGCTACTAGACATAGAGATTTTGG 8344
QY 4520 AATGCAAGGTGAAGCCTTGGTTATTTCTTGGATGTCATCTCCCAAGAGTTGACAGAGT 4579
Db 8345 AATGCAAGGTGAAGCCTTGGTTATTTCTTGGATGTCATCTCCCAAGAGTTGACAGAGT 8404
QY 4580 AAAGAAACAAAATGTATCCACGCGAGGTTTTTCAGACAGGTGGAAGTGTTCGAAGAGATTT 4639

Db 8405 AAAGAAACAAAATGTATCCACGACAGTTTTTTCAGACAGGTGGAAGTGTTCGAAGAGATTT 8464
QY 4640 CACAGGTGAGATCATACCATCAACGCTCATGAATTTACAGGAATGGATTTGTCGGTTC 4699
Db 8465 CACAGGTGAGATCATACCATCAACGCTCATGAATTTACAGGAATGGATTTGTCGGTTC 8524
QY 4700 CTCAAGCGCTCCAAAGAACACAGGAGCATACCCAAATTAATCAACAGATGAGATGAA 4759
Db 8525 CTCAAGCGCTCCAAAGAACACAGGAGCATACCCAAATTAATCAACAGATGAGATGAA 8584
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QY 5120 TTCCATAGACTATCAAGCAATTAAGACGTTGATGATCAAGCAGAGATTTCTGAGGCTATCAA 5179
Db 8945 TTCCATAGACTATCAAGCAATTAAGACGTTGATGATCAAGCAGAGATTTCTGAGGCTATCAA 9004
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QY 5240 TAA 5242
Db 9065 TGA 9067

RESULT 3

US-09-553-690-6
; Sequence 6, Application US/09553690
; Patent No. 6476296

GENERAL INFORMATION:
; APPLICANT: Fischer, Robert L.

; APPLICANT: Choi, Yoonhee
; APPLICANT: Hannon, Mike

; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids That Control Seed and

; TITLE OF INVENTION: Fruit Development in Plants
; FILE REFERENCE: 023070-099000US

; CURRENT APPLICATION NUMBER: US/09/553,690
; CURRENT FILING DATE: 2000-04-21

; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 6
; LENGTH: 1478

; TYPE: DNA
; ORGANISM: Arabidopsis sp.

; FEATURE:
; OTHER INFORMATION: ATPOPOS (ATR) 5' untranslated region

US-09-553-690-6

Query Match

21.5%; Score 1478; DB 4; Length 1478;


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; LENGTH: 2169
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Degenerate polynucleotide sequence of zapop3
; NAME/KEY: misc feature
; LOCATION: (1)...(2169)
; OTHER INFORMATION: n = A,T,C or G
US-09-434-408-3

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Best Local Similarity 26.8%; Pred. No. 0.038;
Matches 90; Conservative 65; Mismatches 181; Indels 0; Gaps 0;

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   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 3146 TGCAGCATCAGTAAAGGTGCATCTAAAGGAACTCGTCTCCAGTTAAAAAGACAGCAGA 3205
   ||| : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1373 ARGCNNTNCARGTNAARAARGAYTNTATGCAYMGNCCARATHMGNWNSCARATHAARYTNA 1432
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QY 3206 AAAGCAGAAATGTTATGTCCTCCCAAAACGCTGCAAAAAGGTCGAGCAGGTAGAAAAA 3265
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QY 3386 AAAAGCAAGAGTCCATCAGGAGAACTTCTGTGTCA 3421
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RESULT 15

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US-09-244-805-29/c
; Sequence 29, Application US/09244805
; Patent No. 6699660
; GENERAL INFORMATION:
; APPLICANT: Worley, Paul F.
; APPLICANT: Lanahan, Anthony
; APPLICANT: Goetz, Bernard
; APPLICANT: Heimisch, Holger
; APPLICANT: Kuner, Rohini
; APPLICANT: Scheek, Sigrid
; APPLICANT: Nikolich, Karoly
; APPLICANT: Zhukovski, Eugene
; TITLE OF INVENTION: IMMEDIATE EARLY GENES AND METHODS OF USE
; TITLE OF INVENTION: THEREFOR
; FILE REFERENCE: 10496/004001
; CURRENT APPLICATION NUMBER: US/09/244,805
; CURRENT FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/074,518
; PRIOR FILING DATE: 1998-02-12
; PRIOR APPLICATION NUMBER: 60/074,135
; PRIOR FILING DATE: 1998-02-06
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 2527
; TYPE: DNA
; ORGANISM: Eukaryote
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (41)...(871)
US-09-244-805-29
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Best Local Similarity 48.0%; Pred. No. 0.12;
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Db 2515 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 2456
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QY 111 ATCTGGAAATTTGCTGCTAAATTTCCAGCTGTGTACATTTTCCGATCAGGAGAAAGATC 170
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Db 2455 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 2396
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QY 171 ACTGGGTTTTTATGTTAATCAATACATGTTCTCTGTTTCTGATCATATAATCTCAGCTATT 230
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Db 2395 GCTTATATACATATATCTTCAACTTTTCAATTTTTCAGCAATTCAGAAATAGGTTTCTCC 2336
   ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| |
QY 231 AACACCTGATTTTGATTTCTGGGTAATAAAACCTCTGATTTTCTTTTCTTTTCTTTTCTCC 290
   ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| |
Db 2335 ATTATCATCTTAAGAAATACAAAGAACAAATGGAGGAAAGATTGAGAAATAGGTTTCTCC 2276
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QY 291 CCATAAACATTTGCTTACTTTTATTCGCTCTTCTT 323
   ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| |
Db 2275 CAACAGTCACCTAGTGTCTATCTATCTTCTCTT 2243
   ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| |
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Job time : 1092 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 27, 2005, 12:18:14 ; Search time 3490 Seconds
(without alignment)
11955.970 Million cell updates/sec

Title: US-09-840-743-5
Perfect score: 6873
Sequence: 1 gttctcgccattgactgcg.....aaaaaaaaaactcgag 6873

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 5633728 seqs, 3035525691 residues

Total number of hits satisfying chosen parameters: 11267456

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

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- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
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- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
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- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
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- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	4788.6	69.7	12785	10	US-09-840-743-1
4	1478	21.5	1478	10	US-09-840-743-6
5	1478	21.5	2066	18	US-10-966-482-15
6	723.8	10.5	6418	18	US-10-437-963-37689
7	676.2	9.8	2775	18	US-10-425-115-107694
8	657	9.6	2380	17	US-10-425-114-31374
9	643	9.4	3769	18	US-10-437-963-12410
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11	575	8.4	2917	18	US-10-425-115-107691

12	523.8	7.6	1654	17	US-10-425-114-8721	Sequence 8721, Ap
13	523.8	7.6	1696	17	US-10-424-599-28644	Sequence 28644, A
14	411.8	6.0	758	10	US-09-840-743-44	Sequence 44, Appl
15	399.6	5.8	1543	17	US-10-425-114-4526	Sequence 4526, Ap
16	398	5.8	1592	18	US-10-425-115-177698	Sequence 177698,
17	352.6	5.1	638	10	US-09-840-743-34	Sequence 34, Appl
18	351.6	5.1	657	10	US-09-840-743-42	Sequence 42, Appl
19	346.4	5.0	754	17	US-10-424-599-14880	Sequence 14880, A
20	338.8	4.9	766	10	US-09-840-743-50	Sequence 50, Appl
21	329	4.8	1134	10	US-09-840-743-36	Sequence 36, Appl
22	261	3.8	1309	18	US-10-425-115-177687	Sequence 177687,
23	253	3.7	616	10	US-09-840-743-38	Sequence 38, Appl
24	250.6	3.6	706	18	US-10-437-963-35749	Sequence 35749, A
25	233	3.4	798	10	US-09-840-743-21	Sequence 21, Appl
26	228.2	3.3	517	10	US-09-840-743-48	Sequence 48, Appl
27	227.6	3.3	954	17	US-10-425-114-31736	Sequence 31736, A
28	219.6	3.2	583	10	US-09-840-743-52	Sequence 52, Appl
29	208.2	3.0	549	18	US-10-437-963-100064	Sequence 100064,
30	205	3.0	205	10	US-09-840-743-4	Sequence 4, Appl
31	201	2.9	1248	17	US-10-425-114-1998	Sequence 1998, Ap
32	201	2.9	1256	18	US-10-425-115-107693	Sequence 107693,
33	191.8	2.8	595	10	US-09-840-743-58	Sequence 58, Appl
34	190.4	2.8	447	11	US-09-732-627A-3570	Sequence 3570, Ap
35	188.8	2.7	449	11	US-09-732-627A-4613	Sequence 4613, Ap
36	184	2.7	1312	9	US-09-938-842A-3803	Sequence 3803, Ap
37	184	2.7	1312	11	US-09-938-842A-3803	Sequence 3803, Ap
38	181.8	2.6	2623	17	US-10-425-114-34026	Sequence 34026, A
39	181.8	2.6	2672	18	US-10-425-115-32143	Sequence 32143, A
40	179.8	2.6	640	10	US-09-840-743-60	Sequence 60, Appl
41	167.6	2.4	663	17	US-10-424-599-46031	Sequence 46031, A
42	159.8	2.3	535	18	US-10-767-701-1085	Sequence 1085, Ap
43	154	2.2	557	10	US-09-840-743-26	Sequence 26, Appl
44	151	2.2	439	10	US-09-840-743-28	Sequence 28, Appl
45	144.6	2.1	422	18	US-10-767-701-17492	Sequence 17492, A

ALIGNMENTS

RESULT 1
US-09-840-743-5
; Sequence 5, Application US/09840743
; Publication No. US20030135890A1
; GENERAL INFORMATION:
; APPLICANT: Fischer, Robert L.
; APPLICANT: Choi, Yeonhee
; APPLICANT: Hannon, Mike
; APPLICANT: Okamura, Jack Kishiro
; APPLICANT: Tatarinova, Tatiana Valerievna
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids That Control Plant Development
; FILE REFERENCE: 023070-099910US
; CURRENT APPLICATION NUMBER: US/09/840,743
; CURRENT FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 09/553,690
; PRIOR FILING DATE: 2000-04-21
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 6873
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: DMT CDNA
US-09-840-743-5

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 6873; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 3721 CTGCGATGCACTGGTACAGAGATGACGTTTTTTCGCCATGGAAGGATCGGTGGTTG 3780
Qy 3781 ATTGGGTCAATGGAGTTTTCTTACAGAGATGCTCGGATCAGCTTTCAGGCTCGGT 3840
Db 3781 ATTGGGTCAATGGAGTTTTCTTACAGAGATGCTCGGATCAGCTTTCAGGCTCGGT 3840
Qy 3841 TCATGCTCTAGCTGCTGATTCCTCCAAATTAAGCAGCAGCGGAGATGAAGAA 3900
Db 3841 TCATGCTCTAGCTGCTGATTCCTCCAAATTAAGCAGCAGCGGAGATGAAGAA 3900
Qy 3901 ATGTTAGAGCGTATGTTTGAAGATCAGAGATGATCTGAACTTAAATGAATTC 3960
Db 3901 ATGTTAGAGCGTATGTTTGAAGATCAGAGATGATCTGAACTTAAATGAATTC 3960
Qy 3961 CTTGTCGAGAAAGGTTCAACATCCATCTGATGAGAGTTTCTCGGGTGTAGTG 4020
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Db 4021 GATCAAAAGAGCAGCTAAGGAGCTGTTCAAACTCTGGAATTTGAAAGATTTAAATTTCTAG 4080
Qy 4081 AGAAGAGTATTCAAAATTTAGAGAGGAAATGATTTATCATCAAGATTTCTTTGATCCGG 4140
Db 4081 AGAAGAGTATTCAAAATTTAGAGAGGAAATGATTTATCATCAAGATTTCTTTGATCCGG 4140
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Db 4141 CGATATTTCACTGCTGGGAGAGTTGGATCCTGTCATGTTCCAAATCAGACGAGAGT 4200
Qy 4201 TTCTCTAACCCAGGTTGAAACAAACTGTGTCAGTGAACATCAAACTCAGTGAAGAACTG 4260
Db 4201 TTCTCTAACCCAGGTTGAAACAAACTGTGTCAGTGAACATCAAACTCAGTGAAGAACTG 4260
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Db 4321 AAGGATCTGGTGTGTTTCAAGAACTCAAAATGTCCTCAGAGAAACCTGATC 4380
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 QY 6601 GAGCACCCGCTCCATTAATGCGAAGGTTGCAATTTTCCTGCGAGCAAAATTTGAAGAACAA 6660
 DB |||||

D _b	6601	GAGCACC	GGCTCCATTAAATGCGAAGTTCATTTCTCGAGCAAAATGAAGAACAACA	6660
Q _y	6661	AAACCTTAAGATGACTCGAAGAAAGCAAAACGCATTTGCTCTGCTCTCTCTATTTAAA		6720
D _b	6661	AAACCTTAAGATGACTCGAAGAAAGCAAAACGCATTTGCTCTGCTCTCTCTATTTAAA		6720
Q _y	6721	GCCAGGAAAAAGTCCCATTGTAGACATAATAACAGGAATCCAAATAGGCTATTTCTCTCTTC		6780
D _b	6721	GCCAGGAAAAAGTCCCATTGTAGACATAATAACAGGAATCCAAATAGGCTATTTCTCTCTTC		6780
Q _y	6781	TTTTCTTATTTCAATTCATAGACGACAGGACACAAAAAGTTTTTTGGGTATTTATTTT		6840
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Q _y	6841	CTCTCTAACAAAAAATAAAAAAAAAAAAAAACTCGAG	6873	
D _b	6841	CTCTCTAACAAAAAATAAAAAAAAAAAAAAACTCGAG	6873	

RESULT 2

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US-09-840-743-7
; Sequence 7, Application US/09840743
; Publication No. US20030135890A1
; GENERAL INFORMATION:
; APPLICANT: Fischer, Robert L.
; APPLICANT: Choi, Yeonhee
; APPLICANT: Hannon, Mike
; APPLICANT: Okamuro, Jack Kishiro
; APPLICANT: Tatarinova, Tatiana Valerievna
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids that Control Plant Development
; FILE REFERENCE: 023070-099910US
; CURRENT APPLICATION NUMBER: US/09/840.743
; CURRENT FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 09/553,690
; PRIOR FILING DATE: 2000-04-21
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 7
; LENGTH: 10620
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: DMT1 (1DWT5) gene sequence from BAC T32M21
US-09-840-743-7

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Query Match	69.7%	Score	4790.2	DB	10	Length	10620
Best Local Similarity	92.7%	Pred. No.	0				
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Db	1449	GTTCCTCGGCAATTGACCTCGGCTGAGAATCAGAAAGCTTAGATCGGTGAGCTTTTAGCTCC	1508				
Qy	61	ATTTCCTGTTTATTACATATTATTCCTTTTCTCTCTCCCTTTTATCTGGAATT	120				
Db	1509	ATTTCCTGTTTATTACATATTATTCCTTTTCTCTCTCCCTTTTATCTGGAATT	1568				
Qy	121	TGTTCTCTGTAATTTTCCAGCTGTTACATTTCCGATCAGAGAGAATCACCTGGGTTTT	180				
Db	1569	TGTTCTCTGTAATTTTCCAGCTGTTACATTTCCGATCAGAGAGAATCACCTGGGTTTT	1628				
Qy	181	TATGTTAATCAATACATGTTTCTCTGTTTCTGATCATAAATCTCAGCTATTAAACACCTGAT	240				
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Qy	241	TTTGATTCTCGGTAATAAAACCTCTGATTTGCTTTTATCTTCACTTTCCCCATAAACAAT	300				
Db	1689	TTTGATTCTCGGTAATAAAACCTCTGATTTGCTTTTATCTTCACTTTCCCCATAAACAAT	1748				
Qy	301	TGCTTACTTTATTGCTCTCTCTTTTACCGTTTCCAGCTAAAAAATCTTCGCTATTCAAT	360				

1749	Db	TGCTTACTTTATTTGCGCTCTCTTTTATCCGTTTCCAGCTAAAAAATCTCTTCGCTATTCCAAT	1808
361	Qy	GTGTTTCTCGTTTTGTGTGATGAGAAAAATATCTGACAAAAAATCAATTATTGTCATTTTAT	420
1809	Db	GTGTTTCTCGTTTTGTGTGATGAGAAAAATATCTGACAAAAAATCAATTATTGTCATTTTAT	1868
421	Qy	GGTGCGAGTTCTTTAGTTTAATGTGCGCTTCTCTTAACCAAGTCAGATTAAAAAGGAGTGTTTC	480
1869	Db	GGTGCGAGTTCTTTAGTTTAATGTGCGCTTCTCTTAACCAAGTCAGATTAAAAAGGAGTGTTTC	1928
481	Qy	GTCCATGTTGCTTTGTTTTGTTGGTCTTTGGAGAGAGTTTTTCGGAGAGTTAGTGAGTGTTAT	540
1929	Db	GTCCATGTTGCTTTGTTTTGTTGGTCTTTGGAGAGAGTTTTTCGGAGAGTTAGTGAGTGTTAT	1988
541	Qy	TTGGGGTGAGGTAGTGATTAAGTTTTCGAAGGGGAGTGATTCATCAAGTGTGTTATGAATTT	600
1989	Db	TTGGGGTGAGGTAGTGATTAAGTTTTCGAAGGGGAGTGATTCATCAAGTGTGTTATGAATTT	2048
601	Qy	CGAGGGCTGATCCGGGGGATAGATAATTTTCGAGTTTCTTTGGAGAAATCAAACTCAACAAG	660
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2169	Db	ATCAGAGAGTGATAAAACCAAGGATCTAAATGGGTTTCCAGGTGGTGAAATTTGTAGACAGGG	2228
781	Qy	GATTTCTGCAACACTGGTGTGGATCATAAATGGGGTTTTTGATCATATGTTGCTCATCAGGGCG	840
2229	Db	GATTTCTGCAACACTGGTGTGGATCATAAATGGGGTTTTTGATCATATGTTGCTCATCAGGGCG	2288
841	Qy	TTACCAACTTAAAGTATGATGATCAATAGCTTAGCGGGATCAGATGACACAAGCTTGAGTA	900
2289	Db	TTACCAACTTAAAGTATGATGATCAATAGCTTAGCGGGATCAGATGACACAAGCTTGAGTA	2348
901	Qy	ATAGTGAGAGAGATCTTTTGGGCGAGAGTGAGGTGACTCTCTCTTTAGCACCAAGTTATCA	960
2349	Db	ATAGTGAGAGAGATCTTTTGGGCGAGAGTGAGGTGACTCTCTCTTTAGCACCAAGTTATCA	2408
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2409	Db	GAACACCAACCGGTAAATGTAGAGCCGGTCAATGGAAATTTTACTTTCAGATGTGGGTATGG	2468
1021	Qy	TAAATGGTCTTTTCAACCGAGTGGAACCTTCTCAAGCTGGCTATAATGAGTTGAAATGG	1080
2469	Db	TAAATGGTCTTTTCAACCGAGTGGAACCTTCTCAAGCTGGCTATAATGAGTTGAAATGG	2528
1081	Qy	ATGACTTGTGTAATCCTGATTCAGATGCCCTTCTCCTTTCAAGCTTGTGAGTGTTGGGG	1140
2529	Db	ATGACTTGTGTAATCCTGATTCAGATGCCCTTCTCCTTTCAAGCTTGTGAGTGTTGGGG	2588
1141	Qy	ATAGCTTATTCAAGGTTTCGTCAATGTGAGTGATCAAAATCTATTTTCAGTTTTTTTTTTTTC	1200
2589	Db	ATAGCTTATTCAAGGTTTCGTCAATGTGAGTGATCAAAATCTATTTTCAGTTTTTTTTTTTTC	2648
1201	Qy	CTTTTCTTCGGTTCTTCAGTACTTATGAGTAGAACATGAATTAGATAATCTTTAAGAAAGT	1260
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1261	Qy	CATGGTTTTGACAGATGGACCTCCAGCGGTGTAAACAGCCTCTTTTCAATTTGAAATTCAC	1320
2709	Db	CATGGTTTTGAAACAGATGGACCTCCAGCGGTGTAAACAGCCTCTTTTCAATTTGAAATTCAC	2768
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2769	Db	CAATTAGAGAGAGAGCAGTTGGGTGAGTCTGTGTGAAAGTTTCTTTTCAATATGTACCGTCAA	2828
1381	Qy	CGCCCACTGTTTCAGAACACGGTGAAAGA CTGGATTCCTTTGAAACAGATAGTTTCAACTA	1440
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 Db 3129 AAGTGGTCTGGGAAGGCAACCTTAAAGGAGCCACGCAAAAGTGCACACTCAGGAAAG 3188
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 Db 3369 CTGAAATGTCAGAAACAGTAGTGGCGCAAACTCGTTTTCTGAGATCAGAGATGCAATTG 3428
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 Db 3429 GTGGAACTAATGGTAGTTCTCTGGATTCHAGTGTCAAAATAGACCAATGGAATGG 3488
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 QY 3001 ACAGCAGCATGTGTGGGAATTTAGATGCTGCAAGAAAGAAACGAAATCCAGAAAGTAG 3060
 Db 4449 ACAGCAGCATGTGTGGGAATTTAGATGCTGCAAGAAAGAAACGAAATCCAGAAAGTAG 4508
 QY 3061 TCCAAAGAAATTTGCAATGGCATGCCACCTGAGGTTATAGAAATCGAGGATGATCCAACTG 3120
 Db 4509 TCCAAAGAAATTTGCAATGGCATGCCACCTGAGGTTATAGAAATCGAGGATGATCCAACTG 4568
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 Db 4569 ATGGGCAAGAAAGGTAAATAATCTGCCAGCATCAGTAAAGGTGCACTTAAAGGAAACT 4628
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 QY 3395 ----- 3394
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 QY 3395 -----AGGTCCATCAGGAGAACTTCTGTGTCAGGATTTCTATTTGCGGAATTAAT 3442
 Db 4929 GGTGCGTGTATAGTCCATCAGGAGAACTTCTGTGTCAGGATTTCTATTTGCGGAATTAAT 4988
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 Db 4989 TTACAGGATGCAAAATCTGTATCTAGGAGACAAAGAAAGAGAAACAGAGCAAAATGCAAT 5048
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Db 5295 AGCCAGCCCATGTTGGAGATATGAGCAACAAAGCCCTGAAGTCACACTCAAAAGTTGCA 5284
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QY 1921 CTGAAATGTCAGAACAGTAGTAGTGGGCAACTCGTTTCTGAGATCAGAGATGCCATTG 1980
Db 5345 CTGAAATGTCAGAACAGTAGTAGTGGGCAACTCGTTTCTGAGATCAGAGATGCCATTG 5404
QY 1981 GTGGAACTAAATGGTAGTTTCTCGGATTCAGTGTCAAAATAGCAAGACCAATGATTGG 2040
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QY 2161 TCCCAAGTGGCAACCCAGAACACCCAGTTCGCCAATGGAAACCAACAAAGCTTGGCTTCAGA 2220
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QY 2281 ACCAGCAGCTTGGCTTGGCCATGGGTATCAACCAACCTATGTATCTGATAGGAATCCAC 2340
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QY 2701 TTTCCAGATTTTGAATGGGACTACAGTACATGCCAGAGAGAGGCTCTCTGCATACG 2760
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Db 6245 ATGGTAATGGGTGCAAGAAAGGTTTACCTCAAAAATCTTTCTCTGCAACTCCAAATATGG 6304
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Db 6425 ACAGCAGCACGTGTGTGGAATATTTAGATGCTGCAAGAAACGAAATCCAGAAAGTAG 6484
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QY 3121 ATGGGGCAAGAAAAAGGTAAAAATATCTGCCAGATCAGTAAAGGTGCATCTAAAGAAAACT 3180
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Db 6605 CGTCTCCAGTTTAAAAAGACAGCAAGAAAGGAGAAATGTTGTCCTCCAAACCGCTGCNA 6664
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Db 6665 AAAAGGGTCGAGCAGGTAGAAAAAATCAGTACCTCCGCTCTCATCTCAGAGATCC 6724
QY 3301 AGCTTTGCAACCTACTCTCTCAAAGACACCTTTATCAAGAAAGCAAGCTTAAAGGAAAG 3360
Db 6725 AGCTTTGCAACCTACTCTCTCAAAGACACCTTTATCAAGAAAGCAAGCTTAAAGGAAAG 6784
QY 3361 GGAGAAAGTCCATACAGATTCAGGAAAGCAAG----- 3394
Db 6785 GGAGAAAGTCCATACAGATTCAGGAAAGCAAGAGGTAACCTAATGTATTTCTACAATCTC 6844
QY 3395 ----- 3394
Db 6845 TGTGATATAATTTTGAGATTTTAGTAAGTGTGTCCAAACCAGCTCCTTATCACTGTT 6904
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Db 6905 GGTGCTTGTATATAGTCCATCAGGAGAACTTCTGTGTGTCAGGATTCCTATTCGGGAAATAT 6964
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QY 3503 GGTCTTGTACAAAGGAGATGTGCACTTGTTCCTTATCAGAGCAAGAAAGCGAAACCAAG 3562
Db 7025 GGTCTTGTACAAAGGAGATGTGCACTTGTTCCTTATCAGAGCAAGAAAGCGAAACCAAG 7084
QY 3563 ACCCAAAGTTGACATTTGACGATGAAACAACTCGCATATGGAACTTACTGATGGGAAAGG 3622
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QY 3623 AGATGAAAAAGAGGGGATGAGAGAGGATTAAGAAAGAGAGAGAGAGAGAGAGAGAGAG 3682
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QY 3683 AAGAAGAGTCTTCCGAGGAGGGCTGATTCCTTCTATCGCTCGCATGCACTGGTACA --- 3739
Db 7205 AAGAAGAGTCTTCCGAGGAGGGCTGATTCCTTCTATCGCTCGCATGCACTGGTACAAGG 7264
QY 3740 ----- 3739
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QY 3740 -----AGGAGATAGA 3749
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 QY 5180 GGAAGAGGATCAATTAACATGTTGCCGTACGAATTAAGGATTTCTGAGAACGGATAGT 5239
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 QY 5240 TAA 5242
 Db 9065 TGA 9067

RESULT 4
 US-09-840-743-6
 ; Sequence 6, Application US/09840743
 ; Publication No. US20030135890A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Fischer, Robert L.
 ; APPLICANT: Choi, Yoonhee
 ; APPLICANT: Hannon, Mike
 ; APPLICANT: Okamuro, Jack Kishiro
 ; APPLICANT: Tatarinova, Tatiana Valerievna
 ; APPLICANT: The Regents of the University of California
 ; TITLE OF INVENTION: Nucleic Acids That Control Plant Development
 ; FILE REFERENCE: 023070-099910US
 ; CURRENT APPLICATION NUMBER: US/09/840,743
 ; PRIOR FILING DATE: 2001-04-23
 ; PRIOR APPLICATION NUMBER: US 09/553,690
 ; PRIOR FILING DATE: 2000-04-21
 ; NUMBER OF SEQ ID NOS: 119
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 6
 ; LENGTH: 1478
 ; TYPE: DNA
 ; ORGANISM: Arabidopsis thaliana
 ; FEATURE:
 ; OTHER INFORMATION: DMT 5' untranslated region
 US-09-840-743-6

Query Match 21.5%; Score 1478; DB 10; Length 1478;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1478; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GTTCTCCGCGATTGACTCGCTCGCAATCAGAAAGCTTAGATCGGTGAGCTTTAGCTCC 60

QY 241 TTTGATCTCGCTAATAAAAACTCTGATTGCTTTTATCTTCACCTTCCCATAAACAT 300
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QY 829 TTTGATCTCGCTAATAAAAACTCTGATTGCTTTTATCTTCACCTTCCCATAAACAT 888
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QY 301 TGCTTACTTTATTCGCTCTCTCTTTTACCGTTTCCAGCTAAAAAATCTTCGCTATTCAAT 360
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QY 889 TGCTTACTTTATTCGCTCTCTCTTTTACCGTTTCCAGCTAAAAAATCTTCGCTATTCAAT 948
QY 361 GTGTTTCTCGTTTGTGATGAGAAAAATATCTGACAAAAAATCAATTTATGCAATTTAT 420
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QY 949 GTGTTTCTCGTTTGTGATGAGAAAAATATCTGACAAAAAATCAATTTATGCAATTTAT 1008
QY 421 GGTGCAGATCTTTAGTTAATGTGCGCTTCTCTAAACCAAGTCAGATTAAAAAGAGTGTTC 480
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QY 1009 GGTGCAGATCTTTAGTTAATGTGCGCTTCTCTAAACCAAGTCAGATTAAAAAGAGTGTTC 1068
QY 481 GTCCATGTTGCTTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 540
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QY 541 TTGGGCTGAGGTAGTGATTAAGTTTGAAGGGGAGTGATTTCATCAAGTGTGTTATGAATT 600
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QY 1129 TTGGGCTGAGGTAGTGATTAAGTTTGAAGGGGAGTGATTTCATCAAGTGTGTTATGAATT 1188
QY 601 CGAGGCTGATCCGGGGATAGATATTTTCGAGTTCTTTGAGAAATCAAACTCAACAAG 660
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QY 1189 CGAGGCTGATCCGGGGATAGATATTTTCGAGTTCTTTGAGAAATCAAACTCAACAAG 1248
QY 661 AGTTCAATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 720
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QY 1249 AGTTCAATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 1308
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QY 1309 ATGAGAGTGATTAACCAAGGATCTAAATGGGTTTCCAGTGGTGAATTTGTAGACAGGG 1368
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QY 1429 TTACCAACTTAAGTATGATGATCAATAGTGTGTTTCCAGTGGTGAATTTGTAGACAGGG 1488
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QY 1549 GAAACACCAACCGGTAACTAGACCGGTCAATGGAAATTTTACTTACAGTGGGTATGG 1608
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QY 1609 TAAATGGTCTTTTACCCAGAGTGGCACTTCTCAAGCTGGCTATAATGAGTTTCAATGG 1668
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QY 1669 ATGACTTGTGAATCTGATCAGATGCCCTTCTCTTCAAGCTGGCTATAATGAGTTTCAATGG 1728
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QY 1729 ATAGCTTATTCAGAGTTCGTCATGTGAGTGATCAAAATCTATTTTCAAGTTTCTTTTTC 1788
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QY 1789 CCTTTCTCCGTTCTTGCACTACTTAGAGTAGAACATGAATAGAAATCTTAAGAAAGT 1848
QY 1261 CATGTTTGAACAGATGGACCTCCAGGCTGTAACAGGCTCTTTTACAATTTGAATTCAC 1320
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QY 1849 CATGTTTGAACAGATGGACCTCCAGGCTGTAACAGGCTCTTTTACAATTTGAATTCAC 1908
QY 1321 CAATTAGAGAGAGAGCTTTGGTTCAGTCTGTGAAAGTTTGGTTTCAATATGTAACCGTCAA 1380

Db 1909 CAATTAGAGAGAGAGCTTTGGTTCAGTCTGTGAAAGTTTCGTTCAATATGTACCGTCAA 1968
QY 1381 CGCCAGCTCTGTTCAGAACAGTGAAGAGCTGGATTCCTTGAACAGATAGTTACAATA 1440
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QY 1969 CGCCAGCTCTGTTCAGAACAGTGAAGAGCTGGATTCCTTGAACAGATAGTTACAATA 2028
QY 1441 CTGACATGAATCCAGAGCCGAAATCTGACAAAAAGT 1478
Db |||||
QY 2029 CTGACATGAATCCAGAGCCGAAATCTGACAAAAAGT 2066
RESULT 6
US-10-437-963-37689
; Sequence 37689, Application 65.3%; DB 18; Length 6418;
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Li, Ping
; APPLICANT: Barbazuk, Brad
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 37689
; LENGTH: 6418
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_41396C.1
US-10-437-963-37689
Query Match 10.5%; Score 723.8; DB 18; Length 6418;
Best Local Similarity 65.3%; Pred. No. 8.4e-177;
Matches 1074; Conservative 0; Mismatches 567; Indels 3; Gaps 1;
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QY 4178 TTGGGCTGTAAAAAAGAAACATATGATTGGGATATGTGAGAAAAGAGTTCTTTTACA 4237
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QY 5083 ATGACGGGAGACAGGAACGAAACAAATATGATTCATAGACTATGAAGCAATAA 5142
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QY 4238 GTCATGTAATAAAGAAAGATCCAGAAATGCTAAGGACTCAATTGATTGGGAAACATAA 4297
QY 5143 GAGTCTAGTATCAGCGAGATTTCTGAGGCTATCAAGGAAAGAGGATGAATAACATGT 5202
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QY 4298 GACAAGCAGAGGTGAAGGAAATATCTGACAAATTAGAGAGCGAGGAATGAATAACATGC 4357
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QY 4358 TGSCAGAACGATAAAAGACTTCTTAACCGGATTTGGTGAGAACCATGGAGCATCGATC 4417
QY 5263 TTGAATGGTTGAGAGATCTCTCTCTGATAAGCCAAAGGACTATCTTTGAGCATAAGAG 5322
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QY 4478 GACTTGGACTTAAAGTGTGAGTGTGGTGTCTTTGACACTCCATCATCATGCTTTTC 4537
QY 5383 CTGTTGACACGAAATGTGGAAGATAGCAGTTAGGATGGGATGGGCTCTCTACAAACCC 5442
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QY 4538 CTGTGGATCAAAATGTGTTAGAAATATGTGAGGCTTTGGATGGTGCACCTTCAGCCCC 4597
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4598 TACCCGAGTCTCTTCAGTTGGACCTGTTGGAGATGTATCCATGCTGGAGACATACAGA 4657
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4658 AATACCTCTGGCCGAGGTTATGCAAGCTTGATCAACGGACATTTGATGAGCTTCACTATC 4717
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5693 CGGCAACAGAGAGGAGCTTAAACAGTGCAACTATTTCGGTCCCTCCCGAGTCTTTC 5742
Db
4838 CTGACCTGAGAGAGAGGTTTGTATGATCTGGAACCCCAATAGCTGCAGAACTTCC 4897
QY
5743 CTCCTGTAGCCATCCGATGATAGAACTACCTCTTCCTGTTGAGAAATCCCTAGCAAGT 5802
Db
4898 ACCAGACATATATAAGTTCTAGGCTGTAGTAAGTCAGCTTGAGTGGAAATTCAAACACT 4957
QY
5803 GAGCAACCATCGAATAGAGAAACTGTGAACCAATAATTTGAAGAGCGGCTCGCCGGGC 5862
Db
4958 GTCACCATGTTATGAACATCCCGACCAATCATTTGAGGAGCCAGAACCCAGAACCTG 5017
QY
5863 AAGAGTGCACTGAATAACCGAGAGTGATATTGAAGATGCTTACTACATAGAGACCTG 5922
Db
5018 AACATGAGACAGAGAGATGAAGAGTGTGCAATAGAGGATAGTTTGTGCGATGATCCAG 5077
QY
5923 ACGAGTCCCAACATTAACATCAACATTTGAACAGTTTGGATGACTCTACGGGAACACA 5982
Db
5078 AAGAATCCCTACTCAAGCTTAATTTTGGAGGTTTACACAGAACCTGGAAGAGTTATA 5137
QY
5983 TG---GAAAGAAACATGAGAGTCCAGAGGTGACATGTCCAAAGCTTTGGTTGCTTGC 6039
Db
5138 TGCAGCAATTAACATTTGAGATGCTGATATGTCAAGGCTTTGGTGCATATA 5197
QY
6040 ATCCAAACACTACTTCTATTCCAACTCCAACTAAAGAACTATGAGCGCTTCAGAGCAG 6099
Db
5198 CTCCTGAAGTTGCTTCTATCCCACTCTCTAGCTCAAGAAATGTCAGTCCCTTAAGGACAG 5257
QY
6100 AGCACAAGTGTACAGCTCCAGATTCACATCGTCTCCTTGATGGTATGATTAAGAG 6159
Db
5258 AGCACAAGTGTATGAATGCGCAGATTCACATCCACTCTTGAAGGATTTCAACCAAGAG 5317
QY
6160 AACCAAGATGATCCAAAGTCTTATCTTAGCTATATGACACACAGTGCAGGCAAT 6219
Db
5318 AACCAAGATGATCTTGGCCATACCTACTCTATATGAGACCCAGGCTGAAACAGTCAAT 5377
QY
6220 CGGCAACCCGCTGAACAGAGTGTGAGGGAAGCGTCTGGCAAAATGTGCTTTGACG 6279
Db
5378 CAATGATGACCTAAGTCCGCTGCAATTCAGAGAGAAATGGTGAATGTGCAAGCA 5437
QY
6280 AGACTTGTCTGAGTGTACAGTCTGAGGAGCAAACTCAGACAGAGTTCGAGNACTC 6339
Db
5438 ATACATGCTTTAGTTGCAACAGTATAGAGAGCGCAGCCCAAAAGTTGAGGGGACAC 5497
QY
6340 TTCTGATACCTTGTGCGGCTGCAATGAGAGGAAGTTTTCGCTCAACGGGACATATTTCC 6399
Db
5498 TGCTGATACCATGCCGAACAGCAATGAGAGGAGCTTTCCACTTAATGGGACATATTTTC 5557
QY
6400 AAGTCAACGAGTTATTTGAGACACGAGTCCAGTCTCAAAACCCATCGATGTTCTAGAG 6459
Db
5558 AAGTCAATGAGGTTATTTGCTGATCATGACTCAAGCCGGAACCCGATTTGATGTTCCAAGGA 5617
QY
6460 ATTGATATGGATCTCCCAAGAGGACTGTTTACTTGGGAACATCAGTAAACATCAAT 6519
Db
5618 GTTGATATGGAATCTCCCTAGGAGAACTGTTTACTTTTGGAACTTTCAATTTCCGACAAAT 5677
QY
6520 TCAGAGGCTCTTCAACGGAGCAGATACAGTTCTGCTTTTGGAAAGGATTCGATGTCGCC 6579
Db
5678 TTAAGGTTTGAACACTGAAGAAATACAAATTTGCTTTTGGAGAGGATTTTGTGTCGTGA 5737

QY 6580 GTGANTTCGAACAGAGAACAGAGCACCGGTCCTCAATTAATGCAAGGTTGCAATTTTCTCG 6639
Db 5738 GAGGCTTTGATAGGACATCAAGAGCACCCAGACCACTGTATGCAAGACTCCACTTTCCAG 5797
QY 6640 CGAGCAAAATTCGAAGAACCAACAAA 6663
Db 5798 CAAGCAAAATTCAGGAATAAAA 5821

RESULT 7

US-10-425-115-107694
; Sequence 107694, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 107694
; LENGTH: 2775
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MPT4577_29715C.1
US-10-425-115-107694

Query Match 9.8%; Score 676.2; DB 18; Length 2775;
Best Local Similarity 63.8%; Pred. No. 1.3e-164;
Matches 1042; Conservative 0; Mismatches 588; Indels 3; Gaps 1;

QY 5034 AAAAGCCCTACAGCCAGTGGGATGCTCAGAAAAGATGTGGAGGGGAATGAAGGGAGA 5093
Db 523 AAAACGAAAATTTATGACTGGGACAGTTTACGAAAAGAGTGTCTTAATGGTGGGAT 582
QY 5094 CAGGAACAAAACAAAACAAATATGATTCCTATAGACTATGAAGCAATAGAGCTGCTAGT 5153
Db 593 AAACAAAAGAAATAATGATGCAAGGAGTACTGTTGATGGGAGGAGTTAGGCAAGCAAA 642
QY 5154 ATCAGCGAGATTTCTGAGGCTTATCAAGGAAAGAGGAGTCAATPAACATGTTGCCGTACGA 5213
Db 643 GTCCGAGAAATATCTGAAACTATCAGAGAGAGAGGAATGAATAACTGCTACGACAGCA 702
QY 5214 ATTAAGGATTTCTAGAACCGGATAGTTAAAGATCATGTGTGATTCGACCTTGAATGGTTG 5273
Db 703 ATAAAGGAATTTCTGAAACCGATTGCTGACAGACCATGGAGGTATTGATCTTGAATGGCTA 762
QY 5274 AGAGATCTCTCTGATAAAGCCAGGACTATCTTTGAGCATAAAGGCTCGGTTG 5333
Db 763 AGAGATGTTTCCACCGGACAAAGCAAGGACTTCTTCTTAAGCATTAGAGGGCTTGAATC 822
QY 5334 AAAAGTGTGAATGCTGCGACTCTTAACTACTCCCAATCTTGTCTTCCCTGTTGACACAG 5393
Db 823 AAAAGTGTGAGTGGTTCGTTCTCTTGACGCTACATCATATGGCTTTTCCAGTGCACACA 882
QY 5394 AATGTTGAAGGATAGCAGTTAGGATGGGATGGGTGCTCTACAAACCCCTACCTGAATCA 5453
Db 883 AATGTTGGTCGATATGTGTGAGGCTTGGATGGGTGCGCTTCAACCATTTGCCAGAGTCT 942
QY 5454 CTTGAGTTACCTCTCTGAGCTATACCCAGTCTCGAGTCCATCCAAATTTCTTTGG 5513
Db 943 CTTGAGTTGACCTATTGGAAATGTATCCCATGCTGGAGCACATACAGAGTACCTTTGG 1002
QY 5514 CCAAGACTTTGCAAACTCGATCAACGAACTGTATGAATTTACACTACCACTGATTAAG 5573
Db 1003 CCTGCACTATGCAAGCTAGATCAAGCTACATTTGATGAGCTTCACTACCAATGATTA 1062

QY 5574 TTTGGAAGGTATTTTGCACAAAGTAGACCAAAATTTGATGTCCTCAATGAGGGA 5633
Db |||||
QY 1063 TTTGGAAGGTATTTTCTGCACAAAGGTAAAGCTTAATTCATTCATGTCCTTGAAGCT 1122
Db |||||
QY 5634 GAGTGCAGACATTTTGCAGTGTATGCTAGTGCAGAGCTTCTTTACCGGCACAGAG 5693
Db |||||
QY 1123 GAATGTAAAGACATTTGTAGTGAATTTGCAAGTGTAGGCTTCTCTCCGACCTGAA 1182
Db |||||
QY 5694 GAGAGGAGCTTTAAACAAGTGCAATATTTCGGTCCCTCCGAGTCCCTTCTCTGCTAGGC 5753
Db |||||
QY 1183 GAAAAAGTTTGGCTACATCGGAGATCCAAATGTTGTAGAGTTTGTCAACCAACATAC 1242
Db |||||
QY 5754 ATCCCGATGATAGACTACCTCTTCCGTTGGGAAATCCCTAGCAAGTGGAGCACCATCG 5813
Db |||||
QY 1243 ATAAATTCAGGGGTGTGTGGCAACTTGAAGTGGAGTGCCTATCTAAGCATGCTGTT 1302
Db |||||
QY 5814 AATAGAGAAATCTGTAACCAATTAATTAAGACCGGCTCGCCGGGCAAGAGTGCAT 5873
Db |||||
QY 1303 TGTGGTAACTCGAGCGGTTTATTGAGGAACCACTGAGCCCAAGAACCTGAACTGAAAT 1362
Db |||||
QY 5874 GAAATACCGAGAGTGTATTTGAAGATGCTTACTCAATGAGGACCTCGACGATCCCA 5933
Db |||||
QY 1363 GTAGAGCGAAGACGCTGCAATAGAGGATTTCTTAATGAAGACCTGATGAAATTCCT 1422
Db |||||
QY 5934 ACAATAAACTCAACATTTGAAGTGTGGAATCTTACGGAACACATGGAAGAAAC 5993
Db |||||
QY 1423 ACTAATACTTAATATTGAGGAGTTTACACAGAACTTGAAGAACTATATGCAAGCAAC 1482
Db |||||
QY 5994 A---TGGAGCTCCAAGAGTGATGTCCTCAAGGCTTTGGTTCCTTGCATCCAACT 6050
Db |||||
QY 1483 CATGTTGAGATTGAGTATGCTGACATGTCAAAGGCAATTTGGTGCATCACGCTGATGCT 1542
Db |||||
QY 6051 ACTTCTATTCCAACTCCCAACTTAAGAACTTAGCCGCTCTCAGGACAGAGCACCAGTG 6110
Db |||||
QY 1543 GCTTCCATTTCCAACTCCAAAGCTCAAGATGTCAATCGTCTGAGACAGACACCAAGTT 1602
Db |||||
QY 6111 TAGGAGCTCCAGATTCACATGCTCTCTGATGATGATGATGATGATGATGATGATGAT 6170
Db |||||
QY 1603 TATGAATCCAGATTCACACCTCTCTGGAAGGATTCGAACAGAGAGAACCAAGATGAT 1662
Db |||||
QY 6171 CCAAGTCTTATCTCTTAGCTATATGGACACAGGAGTGAAGCAAGCAATTCGCGCAACCG 6230
Db |||||
QY 1663 CCTGTCCATATCTCTTCCATATGAGACCCAGGTGAATCTGCAATCATCGATGCC 1722
Db |||||
QY 6231 CCGTGAACAGAGTGGAGGAAAGCGTCTGGCAAAATGTGCTTTGACGAGCTTGTCT 6290
Db |||||
QY 1723 CCAAGACATCTGTGATTCAGGGGAGACGGGTAGACTATGTGGAAGTTCAACATGCTTT 1782
Db |||||
QY 6291 GAGTGTAAAGTCTGAGGAGCAAACTCACAGACAGTTCGAGNACTCTTCTGATACCT 6350
Db |||||
QY 1783 AGTTGCAACATATACGAGAAATGAGGCTCAGAAAGTCAGAGGAACATTTTATACCA 1842
Db |||||
QY 6351 TGTCGAGTGCATGAGAGGAAGTTTCCGCTCAACGGGACATATTTCCAAAGTCAACGAG 6410
Db |||||
QY 1843 TGCCGACAGCAATGAGAGGAAGCTTCCCACTTAATGGAGCTATTTCAAGTTAATGAG 1902
Db |||||
QY 6411 TTAATTTGAGACCCAGCTCCAGTCTCAACCCATCGATGTTCTTAGAGATGATGATG 6470
Db |||||
QY 1903 GTATTTGCTGACCATGCTCAAGTCAAAATCCAAATGATGTCCCAAGTGTGATTTGG 1962
Db |||||
QY 6471 GATCTCCCAAGAGGACTGTTTACTTTCGGAACATCAGTAACATCAATATTCAGAGGTCTT 6530
Db |||||
QY 1963 GACCTCCCAAGCAACTGTTTACTTTTGGAACTCAGTTCCTACAAATTCAGAGGTTTA 2022
Db |||||
QY 6531 TCACGGAGCAGATACAGTCTCTGTTTTTGGAAAGGATTCGATGTGTCGTCGATTCGAA 6590
Db |||||
QY 2023 ACGACTGAAGAGATACAAACGATGCTTTTGGAGAGGATTTGTTGCGTGAGGGCTTTGAT 2082
Db |||||
QY 6591 CAGAAGCAAGACACCGCGTCCAAATTAATGCAAGGTTGATTTTCTCTGCGACCAATTG 6650
Db |||||
QY 2083 AGGACAGTGGCGGACCAAGGCCCTTTATGCAAGGTTGATTTTCTCTGTCAGCAAGGTT 2142
Db |||||
QY 6651 AAGAACACAAAA 6663

Db 2143 GTTAGAGCAAAA 2155

RESULT 8

US-10-425-114-31374
; Sequence 31374, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 31374
; LENGTH: 2380
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLB73161D01_FLI
US-10-425-114-31374

Query Match 9.6%; Score 657; DB 17; Length 2380;
Best Local Similarity 63.1%; Pred. No. 1.2e-159;
Matches 1030; Conservative 0; Mismatches 600; Indels 3; Gaps 1;

QY 5034 AAAAGCCTCAAGCCAGTGGATAGTCTCAGAAAAGATGTGGAGGGAATGAAGGAGA 5093
Db |||||
QY 519 AAAAGAAAATCTGATGCTGGACAGTTTACGGAAGAAAGTCTTCTAATGTGGGAC 578
Db |||||
QY 5094 CAGAACGAAACAAAACAAATATGGATTCCATAGACTATGAACCAATAGACGTGTAGT 5153
Db |||||
QY 579 AAACAAAGATCATGATGCAAGGATCTGTTGATTGGAGGAGCTTAGGCAAGCAGAA 638
Db |||||
QY 5154 ATCAGCGAGATTTCTGAGGCTATCAAGGAAAGAGGATGAATAACATGTTGGCCGTACGA 5213
Db |||||
QY 639 GTACGGGAAATATCTGAAACCATCAGAGAGAGAGGAATGAATAATATGCTAGCAGAACGG 698
Db |||||
QY 5214 ATTAAGSNTTCTAGAACGGATAGTAAAGATCATGTTGGTATCGACCTTGAATGGTTG 5273
Db |||||
QY 699 ATAAAGGAATCTTGAAACCGATTGGTGACAGACCATGGAAGCATTCATCTTGAATGGCTA 758
Db |||||
QY 5274 AGAGAATCTCTCTGATAAAGCCAAAGGACTATCTCTCAGCATAGAGGTCTGGGTTG 5333
Db |||||
QY 759 AGAGATGTTCAACACAGACAAAGCAAGGACTTCTCTTAAGCATTAAGGGCTTGGACTC 818
Db |||||
QY 5334 AAAGTGTGAATGCTGCGACTCTTAAACACTCCAACTCTTCTTCCCTCTTGCACAG 5393
Db |||||
QY 819 AAAAGTGTGAGTGTCTCCCTCTTGACATCATATGCTATATGCTTTCCAGTGGACACA 878
Db |||||
QY 5394 AATGTTGGAAGATAGCAGTTAGGATGGATGGTGGTCCCTCTACAACCCCTACTGATCA 5453
Db |||||
QY 879 AATGTTGGTGGATATGTGTGAGGCTTGGATGGTGGTGGTGGTGGTGGTGGTGGTGG 938
Db |||||
QY 5454 CTTCAAGTACACTCCTCGAGCTATACCCAGTGGCTCGAGTCCATCCAAATTTCTTGG 5513
Db |||||
QY 939 CTTCAAGTGCACCTCTTGGAAATGATCCATGCTGGAGCACATACAGAGTACTCTCG 998
Db |||||
QY 5514 CCAAGACTTGCAGAACTCGATCAAGCACTGTATGAATTAACCTACCACTGATTAAG 5573
Db |||||
QY 999 CTTGACTATGCAAACTAGATCAAGTATGATGAGCTTCACTACCAATGATTA 1058
Db |||||
QY 5574 TTTGAAAGGTATTTTGCACAAAGATGAGACCAAAATTTGAATGCTATGCTTCCATGAGAGA 5633
Db |||||
QY 1059 TTTGAAAGGTCTTCTGCACAAAGTAAGCTTAATTCGAATTCATGTCCATGAGAGCT 1118
Db |||||

Qy	5634.	GAGTGCAGACACTTTGGCCAGTGTCTTATGTAGTGCAGAAGCTTGCTTTACCGGACCCAGAG	5693
Db	1119	GAATGTAAAGCACCTTTGTCTGTGCAATTTGCAAGTGCTAGGCTTGCTCTTCTGCACCTGAA	1178
Qy	5694	GAGAGGAGCTTTAAACAAGTGCAACTATTCCGGTCCCTCCGAGTGCCTTTCTCTCTGTAGCC	5753
Db	1179	GAATAATGTTTGGTTTACATTGGAAGATCCAAATGTTGTAGAGTTTCTCACCAACATAC	1238
Qy	5754	ATCCCGATGTATGAAACTACCTCTTTCCGTTGGAGAAATCCCTAGCAAGTGAGGACCAATCG	5813
Db	1239	ATAAATCAGGGAGTGTGGCCAACTTTGAGTGGAGTGCAAATTTATCTTAAACATGCTGTT	1298
Qy	5814	AATAGAGAAACTCTGTAACCAATAATTAAGAGAGCCGSCCTCGCCGGCGAAGAGTGCACT	5873
Db	1299	TCTGGTAACTCATAGCCAACTCATCGAGAACCACTGAGCCAGAAATGTGAAACTGAAAT	1358
Qy	5874	GAATAAACCGAGAGTGATATTGGAAGATGCTTTACTACAATGAGGACCTCGACGAGATCCCA	5933
Db	1359	ATAGAGGCACATGAGGGTGCAATTTGAGGATTTCTTTTGTGAAGAACTGTGATGAAATTCCT	1418
Qy	5934	ACAAATAAACTCAACATTTGAACAGATTTGGAAATGACTCTACGGGAACACATGGAAAGAAC	5993
Db	1419	ACCAATTAATCTTAATACTGAGGAGGTTCACACAAACTTTGAAGACTATATGCAAGCAAAAC	1478
Qy	5994	A---TGAGAGCTCCAAAGAGGTGACATGCTCCAAAGCTTTGGTTGTCTTTGCCATCCAAACAAT	6050
Db	1479	AATGTTGAGATTGAATATGTCTGACATGTCAAAGGCATTTGGTTCGCATCGCCTGATGCT	1538
Qy	6051	ACTTCTATTCCAATCCCAAACATAAGAAACATTTAGCCGTCTCAGGACAGAGCACCAAGTG	6110
Db	1539	GCTTTCCATTTCCAATCCAAAGCTCAAGAAATGTCAATCGTCTGAGGACAGAAACACCAAGTT	1598
Qy	6111	TACGAGCTCCAGAGATTCACATCGTCTCTTTGATGATGATGATAAAGAGAACACAGATGAT	6170
Db	1599	TATGAACTGCCAGATTCACACCTCTTCTCGAAGGATTCGAAACAGAGAAACACAGATGAT	1658
Qy	6171	CCAAGTCCCTTATCTTTAGCTTATATGACACCCAGGTGAAACAGCGAATTCGGCACAAACCG	6230
Db	1659	CCCTGTCCATATCTTTTCCATATGACCCCAAGGTGAAACTGCACAATCGATCGATGCC	1718
Qy	6231	CCTGAAACAGAAAGTGTGAGGAAAGCGTCTGGCAAAATGTGCTTTGACGAGACTTGTCT	6290
Db	1719	CCCAAGACATTTCTGTGATTCAGGGGAGACGGGTAGACTATGTGGAAGTTTCAACATGCTTT	1778
Qy	6291	GAGTGTAAACAGTCTGAGGGAAGCAAACTCACAGACAGTTCGAGGAACCTCTTCTGATACCT	6350
Db	1779	AGTTGCAACAATATACGAGAAATGCAGGCTCAGAAAGTCAGAGGAACACTTTTGTATACCA	1838
Qy	6351	TGTCGGACTGCGCATGAGAGGAAGTTTTCGCTCAACGGGACATATTTTCCAAGTCAACGAG	6410
Db	1839	TGCCGAACAGCAATGAGAGGAAGCTTCCCACTTAAATGGGACGTAATTTTCAAGTTAATAG	1898
Qy	6411	TTATTTTCAGACACAGAGTCAGTCTCAAAACCCATCGATGCTTCTAGAGATTTCGATATGG	6470
Db	1899	GTATTTCTGACCAATTCCTCAAGTCAAAATCCAAATGATGCCACGAAGTTGGAATTTGG	1958
Qy	6471	GATCTCCCAAGAAGGACTGTTTACTTCGGAACATCAGTAACATCAATATTTCAGAGGTCCT	6530
Db	1959	GACCTCCCAAGACGAACTGTTTACTTTTGGAACTTCAGTTCCTCAATATTTCAGAGGTTTA	2018
Qy	6531	TCAACGAGCGAGATACAGTTCCTGCTTTTGGAAAGGATTCGTATGTGTCTCGTGAATTCGAA	6590
Db	2019	ACGACTGAAGAGATACAAACGATGCTTTTGGAGAGGATTTGCTTTGCGTGAGGGGCTTGAT	2078
Qy	6591	CAGAAGACAAAGAGCACCGGTCCAAATAATGCGAAGGTTTGCATTTTCTCGAGGACAAATTC	6650
Db	2079	AGGACGTGAGGGACCAAGGCCCTTTATGCAAGGTTGCAATTTCTCTGTGCAGCAGGTT	2138
Qy	6651	AAGAACCAACAAA	6663
Db	2139	GTTAGAGCAAAA	2151

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Db 1221 CTAGTGCAATTGCAAGTGCAAGGCTCGCTCTCTCTGAGACCTTCAAAAGAGACTTCTAAAC 1162
Qy 5710 GTGCAACTATTCGGGTCCCTCCGAGTCCCTTTCTCTGTAGCATCCCGGATGATAGAC 5769
Db 1161 CAGAAATACCAATGATGC-AGAGAGAGTCACAAAAATACACATTCAGGCGCTATG 1103
Qy 5770 TACCTCTTCGGTTGGAGAAATCCTAGCAGTGGAGCACCATCGAATAGAGAAAACGTGG 5829
Db 1102 GGCCAACTTAGCTGGAAACAGAACCATCTCTGGG----CATGTTATGTGACCAATAAC 1048
Qy 5830 AACCAATAATTGAAGAGCGGCTCTCGCCGGGCAAGAGTGCACTGAAATAAACGAGAGTG 5889
Db 1047 AACCTATATCGAAGAACCATCAACCCAGAACCTGAACCTGACATTTGAGAGGCAAGAG 988
Qy 5890 ATATTGA---AGATGCTTACTACAATGAGAGCCCTGACGAGATCCCAACAATAAACTCA 5946
Db 987 AGGCCGAATAGAGGATTTTTCAGTGAAGATCCCGATGAAATTCCTATTAAATCTTA 928
Qy 5947 ACATTGAACAGTTTGAATGACTCT---ACGGGAACACATGGAAGAAACATGGAGCTCC 6003
Db 927 ATGTCGAGGAGTTTGACAGAACTTGAAAGATTATATTCTATGCAACAATATCGAGATCG 868
Qy 6004 AAGAAGTGACATGTCACAGGCTTTGGTTGCTTTGCATCCACAACACTACTTCTATCCAA 6063
Db 867 AGATGCTGACATGTCGAATGCACTGGTTGCCATAGCCCTCAAGCTGCTTCAGTTCCAA 808
Qy 6064 CTCCTAAAATAAGAAACATTAGCCGCTCAGGACAGAGCACCAAGTGACAGCTCCAG 6123
Db 807 CTTTCAAGCTCAAGATGTCAACCGCTTGAGGACTGMAACCAAGTTATGATGTCCAG 748
Qy 6124 ATTACATCGTCTCTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 6183
Db 747 ACTCACACCCCTTACTTGAAGGATTTGATCAAGAGAAACCAAGATGATCCCTCCCATATC 688
Qy 6184 TCTTAGCTATATGGACACAGGTGAAACAGCGAAATTCGGCAACCGCTCGACAGAGT 6243
Db 687 TTCTTTCTATATGGACCCCGAGTGAACGGCACATCACTGATGACACCCAGACATTTT 628
Qy 6244 GTGAGGGGAAGCGTCTGCAAAATGTGCTTTGACGAGACTTTTCTGAGTGTAAACAGTC 6303
Db 627 GCAACTCCAGGAAACTTGTAACCTCTGTGAGAGTTTGCACATGCTTTAGCTGCAACAGTA 568
Qy 6304 TGAGGGAAGCAACTCAGACAGTTTCAGGAACTCTCTGATACCTTGTGCGGACTGCCA 6363
Db 567 CACGGGAATGAGTCTCAGAAAGTTAGAGAAACCTTCTGATACCATGCGGACAGCGA 508
Qy 6364 TGAGAGGAAGTTTCCGCTCAACGGGACATATTTCCAGTCAACGAGTTATTTGACAGCC 6423
Db 507 TGAGAGGAAGCTTTCCACTTAAGGGGACATATTTCAAGTTAATGAGGTATTTGCTGATC 448
Qy 6424 ACGAGTCCAGTCTCAAAACCATGATGTTCTAGAGATGGATATGGGATCTCCCAAGAA 6483
Db 447 ACTACTCAGGCAAAATCCATTTGATGTTTCCAGAAAGTTGGATATGGAACCTCCCAAGAC 388
Qy 6484 GGAAGTCTTACTTCCGAACATCAGTAACATCAATATTCAGAGGCTTTTCAACGAGGAGCA 6543
Db 387 GAAACAGTTTACTTTGGAACCTCAGTTCTCAATATTTGAGGTTTGTCACTGGAAGAG 328
Qy 6544 TACAGTCTGCTTTTGGAAAGGATTCGATGTCCTGAGATTCGAAACAGAGCAAGAG 6603
Db 327 TACAACATTTGCTTTGGAGAGGATTTGTGCGTCAAGGGCTTTGATAGGGAATTTAGGG 268
Qy 6604 CACCGCTCCATTAAATGCAAGGTTTGCATTTTCTGCGAGCA 6646
Db 267 CACCAAGACCCCTTACGCAAGGCTTCATTTTCTGCTAGCAA 225
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RESULT 10

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US-10-425-114-33288
; Sequence 33288, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
```

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; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; NUMBER OF SEQ ID NOS: 2003-04-28
; SEQ ID NO 33288
; LENGTH: 2294
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLM017089A12_FLI
; US-10-425-114-33288
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Query Match      8.4%; Score 575; DB 17; Length 2294;
Best Local Similarity 64.3%; Pred. No. 2.7e-138;
Matches 879; Conservative 0; Mismatches 485; Indels 3; Gaps 1;

Qy 5300 GGACTATCTCTTGAGCATAAGAGTCTGGGTTTGAAGAGTGTGAATGCGTGGAGCTTT 5359
Db 504 GGACTTCTTCTAAGCATTTAGAGGGCTTGGACTCAAAAGTGTGAGTGGCTTCTCTCTT 563
Qy 5360 AACACTCCACAATCTTGTCTTCTCTTGTGACAGAAATGTTGGAAGGATAGCAGTTAGGAT 5419
Db 564 GAGCTACATCATATGCTTTTCCAGTGGACACAAATGTTGTCGATATGTGTGAGGCT 623
Qy 5420 GGGATGGGTCCCTCTCAACCCCTACTGATCAGTTCAGTTACACTCTCTGAGCTATTA 5479
Db 624 TGGATGGGTCCGCTTCAACCATTTGCGAGTCTCTTCACTTGTGCACTTATTTGAAATGTA 683
Qy 5480 CCAGTGTCTGAGTTCATCAAAAATTTCTTTGGCCCAAGACTTTTGCAAACTCGATCAACG 5539
Db 684 TCCCATGCTGGAGCACATACAGAAATGACCTTTGGCTCGACTATGCAAGCTAGATCAACG 743
Qy 5540 AACACTGTATGAATTAACATCACTACCACTGATTTAGTTTGGAAAGGATTTTGGCAAAAG 5599
Db 744 TACATTTGATGAGCTTCACTACCAAAATGATTTCTTTTGGAAAGGTTTCTGCAAAAAAG 803
Qy 5600 TAGACCAAAATTTGAATGCTATGTCATGTCATGAGAGGAGAGTGCAGACACTTTTCCAGTCTTA 5659
Db 804 TAAGCTTAATTTGCAATTCATGTCCTTGAAGCTGATGTAAGCACTTTTGTAGTCAATT 863
Qy 5660 TGCTAGTGCAGACTTTGCTTTTACCGGCAACGAGGAGAGGCTTAAAGTGCACATAT 5719
Db 864 TGCAGTGTAGGCTTGTCTTCTCCGACCTGAAAGAAAACGTTTGGCTACATCGGAGGA 923
Qy 5720 TCCGGTCCCTCCGAGTCTCTTCTCTCTGAGGCTCCGATGATAGACTACTCTTCTCC 5779
Db 924 TCCAAATGTTGAGAGTTTGTGACCAAAATATGATAAATTCAGGGGCTGTGTGGGAACT 983
Qy 5780 GTTGGAGAAATCCCTAGCAAGTGGAGCACCATCGAATAGAGAAAACCTGTGAACCAATAAT 5839
Db 984 TGAGTGGAGTGGAACTATCTTAAGCATGCTGTTGTTGTTGTAACCTGCGACCCGCTTCAATCA 1043
Qy 5840 TGAAGAGCGGCTCGCCCGGCAAGAGTGCATGAAATAACCGAGAGTGATTTGAAGA 5899
Db 1044 GGAACCACTGAGCCCAAGAACCTGAAACCTGAAATATGAGGCGAAGGCGTGCATAGA 1103
Qy 5900 TGCTTACTAATGAGGACCTCGAGAGATCCCAACAATAAAACTCAACATTGAACAGTT 5959
Db 1104 GGATTTCTTTAATGAAGACCTCTGATGAATTCCTACTATTATCTTAATATTGAGAGTT 1163
Qy 5960 TGAATGACTCTACCGGAACACATGGAAGAAAGAAACA---TGGAGCTCCAGAGGTGACAT 6016
Db 1164 TACACAGAACTTGAAGAACTATATCAAGCAACCATGTTGAGATTTGAGTATGCTGACAT 1223
Qy 6017 GTCCAGGCTTGGTTGCTTTGTCATCCCAACACTACTTCTATTCCAACTCCCAACTAAA 6076
```

Db 1224 GTCAGAGGATTTGGTTGCCATCACCCCTGAAGCTGTTCCATTCCAACTCCAAAGCTCAA 1283
QY 6077 GAACATTAGCCGCTCAGGACAGAGCAACCAAGTGTACGAGCTCCAGAGTTTCAATCGTCT 6136
Db 1284 GAATGTCAGTCTCTAGGACAGAGCAACCAAGTTTATGAACCTGCGAGATTTCACACCTCT 1343
QY 6137 CTTGATGTTGGATTAAGAGAACAGATGATCCAGTCTTATCTTCTAGCTATATG 6196
Db 1344 TCTGGAAGGATTTGAACAGAGAGAACCAAGATGATCCCTGTCATATCTTCTTCCATATG 1403
QY 6197 GACACAGGTGAACAGCGAATTCGCGCAACCGCTGAACAGAGTGTGGAGGGAAGC 6256
Db 1404 GACCCAGGTGAACCTGACATCAACCAATCGCGCCCAAGACATCTCTGTGATTCAGGGA 1463
QY 6257 GTCTGGCAAAATGTGCTTTGACGAGCTTTGTTCTGAGTGAACAGTGTGAGGGAAGCAA 6316
Db 1464 GACTGGTCAACTATGTGGAAGTTTAAACATGCTTTAGTTGCAACAGTTTACGAGAAATGCA 1523
QY 6317 CTCACAGACAGTTCAGGAGNACTTCTGTATACCTTGTGCGACTGCCATGAGAGGAGTTT 6376
Db 1524 GGCTCAGAAAGTCAGAGGAACA CTCTGTATACATGCCCGACAGCAANTGAGAGGAGCTT 1583
QY 6377 TCCGCTCAACGGGACATATTTCCAAAGTCAACGAGTTTATTGTCAGACCAAGCTCCAGTCT 6436
Db 1584 CCACCTTAATGGGACATATTTCAAGTTTAATGAGTATTTGCTGACCATTTGTTCAAGCA 1643
QY 6437 CAACCCCATCGATGTTCTTAGAGATTGGATATGGGATCTCCCAAGAGGAGCTGTTTACTT 6496
Db 1644 AAATCCAAATTTGATGTCACGAGTTGGATATGGGACCTCCCAAGACGAACTGTTTACTT 1703
QY 6497 CGGAACATCAGTAACATCAATATTACAGGCTCTTCAACGGAGCAGATACAGTCTTGCTT 6556
Db 1704 TGGAACTCTCAGTCTTACAAATATTTAGAGGTTTAAACGACTGAAGAGATACAAATGCTT 1763
QY 6557 TTGGAAGGATTCGTATGTCCTGCGATTTCGAACAGAGACAGAGCACCGCGTCCATT 6616
Db 1764 TTGAGAGGATTCGTTGTCGAGGGCTTGAATAGGACAGTAAGGACAGTAAGGGCACCAAGCCCT 1823
QY 6617 AATGCAAGGTTGCATTTTCTCGAGCAAAATTTGAAGAACAAACAAA 6663
Db 1824 TTATGCAAGTTGCATTTTCTCGCAGCAAGGTTGTAGAGGCANAA 1870

RESULT 11

US-10-425-115-107691
; Sequence 107691, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(5322)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 107691
; LENGTH: 2917
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRA4577_29712C.1
US-10-425-115-107691

Query Match 8.4%; Score 575; DB 18; Length 2917;
Best Local Similarity 64.3%; Pred. No. 3,2e-138;
Matches 879; Conservative 0; Mismatches 485; Indels 3; Gaps 1;
QY 5300 GGACATATCTTTGACATAGAGGCTGGGTTTGAAGAGTGTGAATCGTCCGACTCTT 5359
Db 504 GGACTTCTTCTAAGCATTTAGAGGGCTTGGACTCAAAAGTGTGAGTGGCTTCTCTT 563

QY 5360 AACACTCCAAATCTTGTCTTCCCTGTTTGACACGAAATGTTGAAAGGATAGCAGTTAGGAT 5419
Db 564 GACGCTACATCATATGGCTTTTCCAGTGGACACAAATGTTGGTGGATATGTTGAGGCT 623
QY 5420 GGGATGGGTGCTCTACAAACCTTACCTGAAATCAGTTTACCTTACCTCTCTGGAGCTATA 5479
Db 624 TGGATGGGTGCGCTTCAACCAATTGCCAGAGTCTCTTTCAGTTGCACTTATTTGAAATGTA 683
QY 5480 CCCAGTGTCCAGTCCATCCAAATTTCTTTGGCCAAAGACTTTTGCACAACTCGATCAACG 5539
Db 684 TCCCATGCTGGAGCACATACAGNAGTACTTTTGGCTCGACTATGCAAGCTAGATCAACG 743
QY 5540 AACACTGTATGAATTTACACTCAACTGATTTACGTTTGGAAAGGATTTTTCACAAAGAG 5599
Db 744 TACATTTGATGAGCTTCACTACCAATGATTTTGGAAAGGTTTCTGCAACAAAAG 803
QY 5600 TAGACCAATTTGTAATGATGTCCTCAATGAGAGGAGTGCAGACACTTTCAGGAGTCTTA 5659
Db 804 TAAGCTTAATTTGCAATTCATGTCATTTGAGAGCTGAAATGTAAGCACTTTTGTAGTGCAAT 863
QY 5660 TGCTAGTCAAGAATTTGCTTTTACCGGCACAGAGGAGGAGCTTTAAACAAAGTGCACATAT 5719
Db 864 TGCAAGTCTAGGCTTGTCTTCCGACCTGAAGAAAAACGTTTGGCTTACATCGGAGA 923
QY 5720 TCCGCTCCTCCGAGTCTTCTCTGTTAGCCATCCCGATGATAGAACTACCTCTTCC 5779
Db 924 TCCAAATGTTGTAGAGTTTGTGTCACCAACATACATAAATTCAGGGGCTTGTGGCGAACT 983
QY 5780 GTTGGAGNAATCCCTAGCACTGAGGACCATCGAATAGAGAAAACTGTGAACCAATAT 5839
Db 984 TGAGTGGAGTGGCAATCTATCTTAAGCATGCTGTTTGTGTAACCTGACGCGCTTCATTGA 1043
QY 5840 TGAAGAGCGCGCTCGCGCGGCAAGAGTGCACATGAAATAACCGAGAGTGATATTTGAAGA 5899
Db 1044 GGAACCATGAGCCAGAACCTGAACTGAAATGTAGAGGCGAGGAGCGTGCATAGA 1103
QY 5900 TGCTTATCAATAGAGGACCTTGAGAGATCCCAACAATAAACTCAACATTTGAACAGTT 5959
Db 1104 GGAATTTCTTAATGAAGACCTGATGAATTTCTACTATTAATCTTAATTTTGGAGGTT 1163
QY 5960 TGGATGACTCTACGGGAACATGGAAGAAACA --TGGAGCTCCAAGAGGTGACAT 6016
Db 1164 TACACAGAACTTGAAGAACTATATGCAAGCAAAACCATGTTGAGATTTGATGCTGACAT 1223
QY 6017 GTCCAAAGCTTTGGTTGCTTTGCACTCCAACTACTTCTATTTCCAACTCCCAAACTAAA 6076
Db 1224 GTCAAGGCATTTGGTTGCCATCACCCCTGAAGCTGCTTCCATTCCAACTCCAAAGCTCAA 1283
QY 6077 GAACATTAAGCCTCTCAGGACAGAGCACCAAGTGTACGAGTCCAGAGTTCCATCGTCT 6136
Db 1284 GAAATGTCAGTCTCTTAGGACAGAAACCAAGTTTATGAACCTGCGAGATTCACACCTCT 1343
QY 6137 CTTGATGTTATGATTAAGAGAACAGATGATCCAGTCTTATCTTCTTAGCTATATG 6196
Db 1344 TCTGGAAGGATTTGAACAGAGAGAACCAAGATGATCCCTGTCATATCTTCTTCCATATG 1403
QY 6197 GACACAGGTGAACAGCGAATTCGGCAACAACCGCTCAACAGAGAGTGTGGAGGGAAGC 6256
Db 1404 GACCCAGGTGAACCTGACATCAACCAATGCGCCCAAGACATTTCTGTGATTCAGGGA 1463
QY 6257 GTCTGGCAAAATGTGCTTTTGAAGAGCTGTTGAGTGTAACTGATGAGGGAAGCAAA 6316
Db 1464 GACTGGTCAACTATGTTGGAAGTTTAAACATGCTTTAGTTGCAACAGTTTACGAGAAATGCA 1523
QY 6317 CTCACAGACGTTGAGGAACTCTTCTGATACCTTGTGCGAGTCCATGAGAGGAGTTT 6376
Db 1524 GGCTCAGAAAGTCAGAGGAACA CTCTGTATACATGCCCGACAGCAANTGAGAGGAGCTT 1583
QY 6377 TCCGCTCAACGGGACATATTTCCAAAGTCAACGAGTTTATTGTCAGACCAAGCTCCAGTCT 6436
Db 1584 CCACCTTAATGGGACATATTTTCAAGTTAATGAGTATTTGCTGACCATTTGTTCAAGCCA 1643

QY 6437 CAACCCATCGATGTTCTCTAGAGATTGGATATGGGATCTCCCAAGAGGACTGTTTACTTT 6496
Db 1644 AATATCAATTTGATGTCCACGAAGTTGGATATGGGACTCCCAAGAGGACTGTTTACTTT 1703
QY 6497 CGGAACATCAGTAACATCAATATTCAGAGGCTTTTCAACGGAGCAGATACAGTTCTGCTT 6556
Db 1704 TGAACCTCAGTTCCCTACCAATATTTAGAGGTTTAAACGACTGAAGAGATACAAACAATGCTT 1763
QY 6557 TTGGAAGGATTGCTATGTGCTCGTGGATTTCGAACAGAGAGCAAGACCGGTCCTATT 6616
Db 1764 TTGAGAGGATTCGTTTGTGTAGGGCTTTGATAGGACAGTAAGGGCCCAAGGCCCT 1823
QY 6617 AATGGCAAGGTTGCATTTTCTCGAGCAAAATTTGAAGAACAAACAAA 6663
Db 1824 TTATGCAAGGTTGCATTTTCTCGCAGCAAGTTGTTAGAGCAAAA 1870

RESULT 12
US-10-425-114-8721
; Sequence 8721, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaka, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 8721
; LENGTH: 1654
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700789722_FLI
US-10-425-114-8721

Query Match 7.6%; Score 523.8; DB 17; Length 1654;
Best Local Similarity 66.0%; Pred. No. 4.9e-125;
Matches 806; Conservative 0; Mismatches 382; Indels 33; Gaps 2;

QY 5470 TGGAGCTATACCCAGTCTCGAGTCCATCCAAAAATTTCTTTGGCCAGAGACTTTGCAAAAC 5529
Db 1 TAGAATTGTACCCAGTGTGGAGTCCATACAAAATATCTCTGGCCCCGGCTCTGCAAGC 60
QY 5530 TCGATCAAGGAACACTGTATGAATTTACACTACCAACTGATTTACGTTTGGAAAGGATTTT 5589
Db 61 TAGACCAAGAACACTTTGTAGCTGTCATTACCACTGATTTACATTTTGGAAAGGCTTCT 120
QY 5590 GCACAAAGAGTAGACCAATTTGTAATGATGTCCAAATGAGAGGAGGTGCGACACTTTG 5649
Db 121 GTACTAAAGACAGCCAAATTTGCAATGCTTGCCCAATGAGAGGGAATGCGACACTTTG 180
QY 5650 CAGTGTCTTCTAGTCAAGACTTGTCTTACCGGCACAGAGGAGGAGCTTTAAACAA 5709
Db 181 CAAAGTCTTTTGAAGTAGCAAGGCTCGCCCTGCCAGGATCAGACAGAGATATAGTTA 240
QY 5710 GTGGAACTATTTCCGGTCCCTCCGAGTCTTCTCTCTGTAGCCATCCGATGATAGAAC 5769
Db 241 TCACAACTGGAAACAATGCAACTGAGCAGAAACCCATCACTAGTCATCAATCAGCTGCCCT 300
QY 5770 TACCTCTTCCGTTGGAGAAATCCCTTAGC-----AA 5799
Db 301 TGTCTTCTCTGAAATATAACCAAGCAGAACTTCAACAAAGAGATGATCAGGCAAC 360
QY 5800 GTGGAGCAACATCGATAGAGAAACTGTGTGAACCAATAATTTGAAGAGCCGGCTTCGCCG 5859
Db 361 TAGAAGCAAAATCTGAAATCAACATCAGCCAACTTATTTAGAGAGCCAGCACTCCAG 420

QY 5860 GGCAAGAGTGCACCTGAATAATACCGAGAGTGATATTTGAAGATGCTTTACTACAAATGAGGACC 5919
Db 421 AGCCAGAATGCTCCCAAGTATCCGAAAATGATATAGAGGATAC---CTTCAATGAGGAAT 477
QY 5920 CTGACGAGATCCCAACAATAAACTCAACATTTGAACAGTTTGAATGACTCTACGGGAAC 5979
Db 478 CATGTGAATTTCCCAACCATCAAACTAGACATAGAAAGATTCACTTTGAACCTTACAAAAT 537
QY 5980 ACATGGAAGAAACATGGAGCTCCAAGAGGTGACATCTCCAAGGCTTTGGTTGCTTTGC 6039
Db 538 ATATGCAAGAAACATAGAACTTCAAGAAAGTGAATGTCAAGAGGCTTTGGTTGCTCTAC 597
QY 6040 ATCCAAACACTACTTCTATTTCCAACTCCAACTCCAACTTAAGAAACATTTAGCGCTCTCAGGACAG 6099
Db 598 ATCCAGGTGCTGCATGCAATTTCTACACCAAGCTGAAGAAATGTGAGCCGGTTGCGAAACAG 657
QY 6100 AGCACCAGTGTACGAGCTCCAGATTCACATCTCTCTTGTGATGATGATAAAGAG 6159
Db 658 AGCATTATGTTTATGAACCTCCCTGATTCACATCCCTTCTGAATGGGTGGAAACAGCGAG 717
QY 6160 AACAGATGATCCAAAGTCTTTATCTTAGCTATATGGACACCAAGGTGAACACAGCAATT 6219
Db 718 AACCTGATGATCCAGGCAAAATACCTTCTAGCTATATGGACTCCAGGGGAGACAGCAGATT 777
QY 6220 CGGCACAAACCGCTTGAACAGAGGTGTGAGGGAAGCGTCTGCAAAATGTGCTTTGACG 6279
Db 778 CTATACAGCACCAAGAAAGCAATTCAGCTCTCAGGAATGTGGCCGGCTCTGTAAATGAGA 837
QY 6280 AGACTTCTTCTGAGTGTAAACAGTCTGAGGGAAGCAAACTCACAGACAGTTTCGAGGAACCTC 6339
Db 838 ATGAATGTTTTTCATGCAACAGTTTCCGTGAGCAAGTTTCAAGATAGTTTCGAGGGACAC 897
QY 6340 TTCTGATACCTTTGTCGAGCTGCCATGAGAGGAAGTTTTCGCTCAACGGGACATATTTCC 6399
Db 898 TCCTGATACCATGTCGAACAGCTATGAGAGGGAGCTTTCCGCTAAATGGCACTTATTTTC 957
QY 6400 AAGTCAACAGAGTTATTTGCGAGACCAGAGTCCAGTCTCAAAACCCATCGATGTTCCCTAGAG 6459
Db 958 AAGTCAACAGAGTCTTTGCGAGCAATGACTCAAGTCTTAACCCAAATAGTGTTCCTCCGAA 1017
QY 6460 ATTGGATATGGATCTCCCAAGAGGACTCTTTACTTCGGAACATCAGTAACATCAATAT 6519
Db 1018 GTTGGATCTGGAACCTTGATAGGCAACAGTGTATTTGGAACCTCCATACCATCTATAT 1077
QY 6520 TCAGAGTCTTTCAACGGAGCAGATACAGTTCTGCTTTTGGAAAGGATTCGTATGTGTC 6579
Db 1078 TCAAAGTTTATCAACACGAGAAATTCACAATGCTTTTGGAGAGGATATGTCTGCGTGC 1137
QY 6580 GTGGATTGCAACAGAGACAGAGCACCAGCTCCATTAAATGGCAAGGTTGCAATTTTCCTG 6639
Db 1138 GTGGATTGACCGGGAAGAGCGAGCACCAGCTCTGTTGGCTAGACATACACTTCCCGG 1197
QY 6640 CGAGCAAAATGAAGAACAA 6660
Db 1198 TTAGCAGGTTGCCTAAGAATA 1218

RESULT 13

US-10-424-599-28644
; Sequence 28644, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5322)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684


```
; SEQ ID NO 28644
; LENGTH: 1696
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_125868C.1
US-10-424-599-28644

Query Match          7.6%; Score 523.8; DB 17; Length 1696;
Best Local Similarity 66.0%; Pred. No. 5e-125;
Matches 806; Conservative 0; Mismatches 382; Indels 33; Gaps 2;

QY 5470 TGGAGCTATACCCAGTGTCCAGTCCATCCCAAAATTTCTTTGGCCCAAGACTTTCCAAAC 5529
DB 1 TAGAATTTGACCCAGTGTGGAGTCCATACAAAATATCTCTGGCCCGGCTCTCAAGC 60
QY 5530 TCGATCAACGAACACTGTATGAATTTACACTACCAACTGATTACGTTTGGAAAGGTATTTT 5589
DB 61 TAGACCAAGAACAATTTGATGAGCTGCATTACCACTGATTACATTTGGAAAGGTCTTCT 120
QY 5590 GCACAAAGAGTAGACCAAAATTTGAATGATGTCCAATGAGAGGAGTGCAGACACTTTG 5649
DB 121 GTACTAAAGCAAGCAAAATTTGCAATGCTTGCCCAATGAGAGGGGAATGCAGACACTTTG 180
QY 5650 CCAGTGTCTTATGCTAGTGCAGACTTCTTTACCGGCACAGAGAGGAGCTTAAACA 5709
DB 181 CAAGTGTCTTTGCAAGTGCAGAGGCTCGCCCTGCCAGGATCAGAGCAGAGAGATAGTTA 240
QY 5710 GTGCAACTATTCCGGTCCCTCCGAGTCTTTCTCTCTGTAGCCATCCGATGATAGAAC 5769
DB 241 TCACAACTGGAAACAATGCACTGAGCAGAACCCATCACTAGTCATCAATCAGCTGCCCT 300
QY 5770 TACTCTTTCCGTTGGAGAAATCCCTPAGC-----AA 5799
DB 301 TGTCTTCTCCCTGAAAAATATAACCAAGCAGAACTTTCAACAAACAGAGTGATCAGGCAAC 360
QY 5800 GTGGAGCACCATCGAATAGAGAAACTGTGAACCAATTAATGAAGAGCGGCTCGCCG 5859
DB 361 TAGAAGCAAAATCTGAAATCAACATCAACATCAACCACTTATTATTGAAGAGCCAGCACTCCAG 420
QY 5860 GCGAAGAGTGCACCTGAAATTAACCGAGAGTGATATTGAAGATGCTTACTACATAGAGACC 5919
DB 421 AGCCAGATGCTCCCAAGTATCCGAAATGATATAGAGGTAC----CTTCAATGAGGAT 477
QY 5920 CTGACGAGATCCCAACATAAATACTCAACATGAACTGGAATGACTCTACGGGAAC 5979
DB 478 CATGTGAATTTCCCACTCACTAAGATAGAGAGTTCATTTGAACTTACAAACT 537
QY 5980 ACATGGAAAGAACATGAGTCCCAAGAGTGATGTCACATGTCACAGGCTTTGGTTGCTTGC 6039
DB 538 ATATGCAAGAAACATGGAACCTTCAAGAAAGGTGAATGTCAAGGCCCTTGGTTGCTCTAC 597
QY 6040 ATCCAAACACTACTTCTATTCCCACTCCCAACTAAAGAACTTAGCCGTCTCAGGACAG 6099
DB 598 ATCCAGGTGTCATGCAATTTCTACCCCAAGCTGAAGAAATGTGAGCCGTTGCCAAGCAG 657
QY 6100 AGCACCAGTGTACGAGTCCAGATTCACATCGTCTCTCTGATGATGATGAATAAAGAG 6159
DB 658 AGCATTTATTTATGAATCTCCCTGATTTCATCTCCCTTCTGAATGGTGGAAACAGCGAG 717
QY 6160 AACGAGATGATCCAAAGTCTTATCTCTAGCTATATGACACAGGAGTGAACAGCGAAT 6219
DB 718 AACCTGATGATCCAGGCAAAATACCTTCTAGCTTATATGGAATCCAGGGGAGACAGAGATT 777
QY 6220 CGGCACAAACCGCTCAACAGAGTGTGGAGGAAAGCGTCTGGCAAAATGTCTTTGAGC 6279
DB 778 CTATACAGCCACCAAGAAACAATGCAGCTCTCAGGAATGTGGCCGGCTCTGTAATGAGA 837
QY 6280 AGACTTGTCTGAGTGAACAGTCTGAGGAGAGCAAACTCAGACAGAGTTCGAGGAATC 6339
DB 838 ATGAATGTTTTTCATGCAACAGTTTTCCGTGAAGCAAGTTTCACAGATAGTTTCGAGGAC 897
QY 6340 TTCTGATACCTTGTCCGACTGCCATGAGAGGAAGTTTTCGCGCTCAACGGGACATATTTCC 6399
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Db 898 TCCTGATACCATGTGCAACAGCTATGAGAGGAGCTTTCCGCTAAATGGCACCTATTTTC 957
QY 6400 AAGTCAACGAGTATTTTGCAGACCAAGTCCAGTCTCAAAACCCATCGATGTTCTCTAGAG 6459
Db 958 AAGTCAACGAGGCTTTTGCAGACAATGACTCAAGTCTTAAACCCAAATAGTGTTCGCCGAA 1017
QY 6460 ATTGATATGGATCTCCCAAGAGGAGTGTCTTACTTCGGAACATCAGTAACATCAATAT 6519
Db 1018 GTTGGATCTGGAACCTTGTATAGGCGAACAGTGTATTTTGGAACTTCCATACCATCTATAT 1077
QY 6520 TCAGAGGTCTTTCAACGAGCAGACATACAGTGTCTGCTTTTGGAAAGGATTCGTATGTGTC 6579
Db 1078 TCAAGGTTTATCAACAGCAGAAATTCACAAATGCTTTTGGAGAGATATGTCGTGCTGC 1137
QY 6580 GTGGATTCGAACAGAGAACAAGAGCAGCCGCTCCATTAATGSCAAAGTTTGCATTTTCTCTG 6639
Db 1138 GTGGATTTGACGGGAAAGAGCAGCAGCCCGACCTCTGTGGCTAGACTTACACTTCCCGG 1197
QY 6640 CGAGCAAAATTCGAAGACAACA 6660
Db 1198 TTAGCAGGTTGCCTAAGAATA 1218

RESULT 14
US-09-840-743-44
; Sequence 44, Application US/09840743
; Publication No. US20030135890A1
; GENERAL INFORMATION:
; APPLICANT: Fischer, Robert L.
; APPLICANT: Choi, Yeonhee
; APPLICANT: Hannon, Mike
; APPLICANT: Okumuro, Jack Kishiro
; APPLICANT: Tatarinova, Tatiana Valerievna
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids That Control Plant Development
; FILE REFERENCE: 023070-099910US
; CURRENT APPLICATION NUMBER: US/09/840,743
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 09/553,690
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 44
; TYPE: DNA
; LENGTH: 758
; ORGANISM: Lycopersicon esculentum
; FEATURE:
; OTHER INFORMATION: tomato 12624037 EST469495
US-09-840-743-44

Query Match          6.0%; Score 411.8; DB 10; Length 758;
Best Local Similarity 72.9%; Pred. No. 4.7e-96;
Matches 530; Conservative 0; Mismatches 197; Indels 0; Gaps 0;

QY 5062 TCAGAAAAGATGTGGAGGGGAATGAAGGAGACAGAAACGAAACCAATATGATGATT 5121
DB 4 TGAGAAAAGAAAGTCCAAATCAAAAGAGTGGGAAAAAGAAAGAAAGCAAGGATGCAATGGACT 63
QY 5122 CCATAGACTATGAGCAATAGACGTGCTAGTATCAGCGAGATTTCTGAGGCTATCAGG 5181
DB 64 CATTGAACCTACGAAGCAGCTCAGAAAGTGCAGAGTTAAAGAAATTTCTGATGCTATTAAGG 123
QY 5182 AAAGAGGATGAATTAACATGTTGGCCGTACCAATTAAGGATTTCTAGAACCGGATAGTTA 5241
DB 124 AACGAGGATGACAAACATGCTGCGAGAGCGAATTAAGGACTTCTCGATAGACTGGTGA 183
QY 5242 AAGATCATGTTGGTATCGACCTTGAATGTTGAGAGAAATCTCCTCTGATATAAGCAAGG 5301
DB 184 GGGATCATGGAAGTATTGACCTAGAAATGTTGAGAGATGTGGCCCGCCAGACAAAGGAAAG 243
QY 5302 ACTATCTCTGAGCAATAGAGTCTGGGTTTGAAGAGTTTGAATGCGGTGCGACTCTTAA 5361
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Db 244 AGTATCTTTTGGAGTATTCGGTCTGAAAGTGTAGATGTGTCGGCTATTAA 303
 QY 5362 CACTCCACATCTTGTCTTCCCTGTTGACACGAAATGTTGGAAGGATAGGATGAG 5421
 Db 304 CACTTATAACCTTGTCTTCCAGTTGACACAAATGTTGACGAATGCTGAGATTAG 363
 QY 5422 GATGGGTGCTCTACAACTTACCTGAAATCACTTCAGTTTACACCTTCCCTGGAGCTATACC 5481
 Db 364 GATGGGTGCTCTTCCAACTTCCCTGAGTCCCTGAGTGGATCTTCTTGAACGTATC 423
 QY 5482 CAGTGTGCTGATCCATCCAAATTTCTTTGGCAAGATTTGCAAACTCGATCAACGAA 5541
 Db 424 CAATCTGGAGTCAATTCGAAGTATCTCTGGCCACGACTCTGCAAGCTCGATCAGAGAA 483
 QY 5542 CACTGTATGAATTACACTACCACTGATTAAGTTTGGAAAGTATTTGCAAAAGATA 5601
 Db 484 CACTGTATGAGTTGCACTACCACTGATTAAGTTTGGAAAGTATTTGCAAAAGATA 543
 QY 5602 GACCAATTTGAATGATGTCATGAGAGGAGTGCAGACACTTTTGCAGTGTCTTATG 5661
 Db 544 AGCTTAACCTGTAATGATGCCACTGAGAGCTGATGTCAGACACTTTTGTAGTGTACG 603
 QY 5662 CTAGTCCAAAGCTTGTCTTACCGCACAGAGAGAGAGCTTAAAGTGCATATTC 5721
 Db 604 CRAAGTCAAGACTTGTCCCTTCTGCGCCAGAGAGAGAGTATAGTGTTCAGCAGTTC 663
 QY 5722 CGGTCTCCCTCCGAGTCTTCTTCTGAGCCATCCGATGATGAACACTTCTTCCGT 5781
 Db 664 CGATCCCTAGTGGGAAATGAGCTGCGCATTCAGCCCATGATATACCCCGAGAGC 723
 QY 5782 TGGAGAA 5788
 Db 724 TGAAGTA 730

RESULT 15
 US-10-425-114-4526
 ; Sequence 4526, Application US/10425114
 ; Publication NO. US20040034888A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Liu, Jingdong
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Kovalic, David K.
 ; APPLICANT: Screen, Steven E.
 ; APPLICANT: Tabaska, Jack E.
 ; APPLICANT: Cao, Yongwei
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
 ; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 ; FILE REFERENCE: 38-21(5313)B
 ; CURRENT APPLICATION NUMBER: US/10/425,114
 ; CURRENT FILING DATE: 2003-04-28
 ; NUMBER OF SEQ ID NOS: 73128
 ; SEQ ID NO 4526
 ; LENGTH: 1543
 ; TYPE: DNA
 ; ORGANISM: Zea mays
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: 700381361_FLI
 US-10-425-114-4526

Query Match 5.8%; Score 399.6; DB 17; Length 1543;
 Best Local Similarity 60.8%; Pred. No. 1.1e-92;
 Matches 730; Conservative 0; Mismatches 449; Indels 21; Gaps 4;
 QY 5453 ACTTCAGTTACACCTCTCGAGCTATACCCAGTCTCGAGTGCATCCAAATTTCTTTG 5512
 Db 10 AGTACAGTACATCTCTTGGAGCTATATCTTATCTTGGAAACTATACAAAGTATCTTTG 69
 QY 5513 GCCAAGACTTTGCAAACTCGATCAACGACACTGTATGAATTAACCTACCACTGATTAC 5572
 Db 70 GCCTCGCTTTGTAACTCGATCAGAGACACTGTATGAGCTGCAATTCAGATGATTAC 129
 QY 5573 GTTTGGAAAGTATTTGGCAAAAGATAGACCAAAATTTGAATGTCATGTCCATGAGAGG 5632

Db 130 ATTTGGAAAGTCTTTTGTACCAAAAGACACCAAAATTCATGCAATGCAATGCAATGAGGAG 189
 QY 5633 AGAGTGCAGACACATTTGCCAGTCTTATGCTAGTGCAGAGCTTCTTTACCGGACACAGA 5692
 Db 190 TGAGTGCAGACATTTTGCAGTGCATTTGCAAGTGCAGAGGCTTGCACCTTCTGCTCCCA 249
 QY 5693 GGAGAGGAGCTTAAACAAGTGCACATTTCCGGTCCCTCCCGAGTCTTTTCTCTGCTGAGC 5752
 Db 250 GGAGAAAGCTTAGTGAAGTTGAGCAATTCATTTGCTTTCCAGAAATGACGATGCAATGC 309
 QY 5753 CATCCGATGATGAACACTTCTTCCGTTGGAGAAATCCCTAGCAAGTGCAGAGCACCATC 5812
 Db 310 TATGAATTCGACTCACCTACCTCGCTTGGAGGAGTATCCATTTCAAGGGAGTTTCTTCC 369
 QY 5813 GAATAGAGAAACTGTGAACCAATAATTGAAGAGCCGCTCGCCGGGCAAGAGTGCAC 5872
 Db 370 TAAG-----AACTCAGAGCCATAATTCGAGAGCCCTGCAAGTCCAGAGAGGAAAGACC 423
 QY 5873 TGAATTAACCGAGAGTGCATTTGAAGATGCTTACTACAATGAGGACCTGACGAGATCCC 5932
 Db 424 TCCAGAAACCATGGAAATGATATTGAAGATTTTATGAAGA-----TGGTGAATATCCC 477
 QY 5933 AACAAATAAACTCAACATTCAGAGTTTGAATGACTCTACGGGAACACAT---GGAAAG 5989
 Db 478 AACAAATAAGCTTAACATGGAAGCTTTTGCAAAAACCTTGGAGAAATGCAATTAAGAAAG 537
 QY 5990 AACATGAGCTCCAAAGAGGTGACATGTCACAGGCTTTGGTTGCTTTGTCATCCAAACAC 6049
 Db 538 CAATAACGAACTCCAGTCTGATGATATTGCAAAAGCATTTGGTTGCTTATTAGCACTGAAGC 597
 QY 6050 TACTTCTATTCCAACTCCCAACTAAGAACATTTAGCCGTCTCAGGACGAGAGCACCAGT 6109
 Db 598 AGCTTCGATTCCTGTACCGAACTAAGAAATGTGCTTAGGCTTCGAAACAGAACACTATGT 657
 QY 6110 GTACGAGCTCCAGATTCACATCGTCTCCTTTGAT-----GGTATGGATAAAGAGAACCC 6163
 Db 658 GTATGAGCTTCCAGATGCATCCACTTTTACAAACAGCTAGGACTTGAACCAACGGAGACA 717
 QY 6164 AGATGATCCAGTCTCTTATCTCTTACGATATGACACACAGGTGAAACAGCGAATTCGGC 6223
 Db 718 TGATGATCTTACCCCATCTTATTTGCCATATGACACACAGATGGAATAAAGGAAATAAC 777
 QY 6224 ACAACCGCTTGAACAGAGTGTGGAGGAAAGCGTCTGCAAAAATGTGCTTTGACGAGAC 6283
 Db 778 TAAGACACCAAAACCATGCTGTGACCTCAATGGAGGCGATTTATGCAATAATGAAT 837
 QY 6284 TTGTTCTGAGTGTAAAGCTCTGAGGAAAGCAAACTCAGACAGCTTCGAGGAACTCTTCT 6343
 Db 838 GTGCCCAATTTGTACTGCAGAGAAAGAAACCAATCTAGATATGTGAGAGGACCAATCT 897
 QY 6344 GATACCTTGTGAGCTGCCATGAGAGGAGTTTTCGCTCAACGGGACATATTTCCAACT 5403
 Db 898 GGTTCCTTGTGACAGCTATGAGGAGTATTTCCCACTTAACGGCCTTACTTCTTCAAGT 957
 QY 6404 CAACGAGTTATTTGACAGCACGAGTCCAGTCTCAAAACCATCGATGTTCTTAGAGATTG 6463
 Db 958 CAATGAGTATTTGCTGACCAAGATCTAGCCACCAACCAATCCATGTGGAAGGAGAT 1017
 QY 6464 GATATGGGATCTCCCAAGAGGACGTGTTTACTTCGGAACATCAGTAACATCAATATTCAG 6523
 Db 1018 GCTATGGAACCTTGCAGAGGCGCATGCTCTTTTCCGGGACTTCAGTACCCACCATATTCAA 1077
 QY 6524 AGGTCTTTCAACGGAGCAGATACAGTCTGCTTTTGGAAAGGATTCGTATGTCCTGGG 6583
 Db 1078 AGGTTTAAAGACAGAGAAATACAACTGCTTCTGGAGGGATTTGCTGTGTCGAGAG 1137
 QY 6584 ATTCCAAAGAGCAAGAGCACCAGTCCATTAATAGCAAGGTTGCAATTTCTCTGCGAG 6643
 Db 1138 ATTCCAGATGGAGACTAGAGCACCAGGCTCTGTGCCCCCATTTGCAATTTATAGCAAG 1197

Job time : 3520 secs

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